UCD LIBRARY

PHYSICAL SCI. LIB.

STATE OF CALIFORNIA
The Resources Agency

S

Department of Water Resources

JUL 1 1975
MAR 15 REC'D

BULLETIN No. 130-71

HYDROLOGIC DATA: 1971

Volume IV: SAN JOAQUIN VALLEY

R 2 1973

UNIVERSITY OF CALIFORNIA
DAVIS
JAN 15 1973
GOV'T. DOCS. - LIBRARY

DECEMBER 1972

UCD LIBRARY

NORMAN B. LIVERMORE, JR.	RONALD REAGAN	WILLIAM R. GIANELLI
Secretary for Resources	*Governor*	*Director*
The Resources Agency	*State of California*	*Department of Water Resources*

STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources

BULLETIN No. 130-71

HYDROLOGIC DATA: 1971

Volume IV: SAN JOAQUIN VALLEY

Copies of this bulletin at $4.00 each may be ordered from:
Department of Water Resources
P.O. Box 388
Sacramento, California 95802
Make checks payable to STATE OF CALIFORNIA.
California residents add 5 percent sales tax.

DECEMBER 1972

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

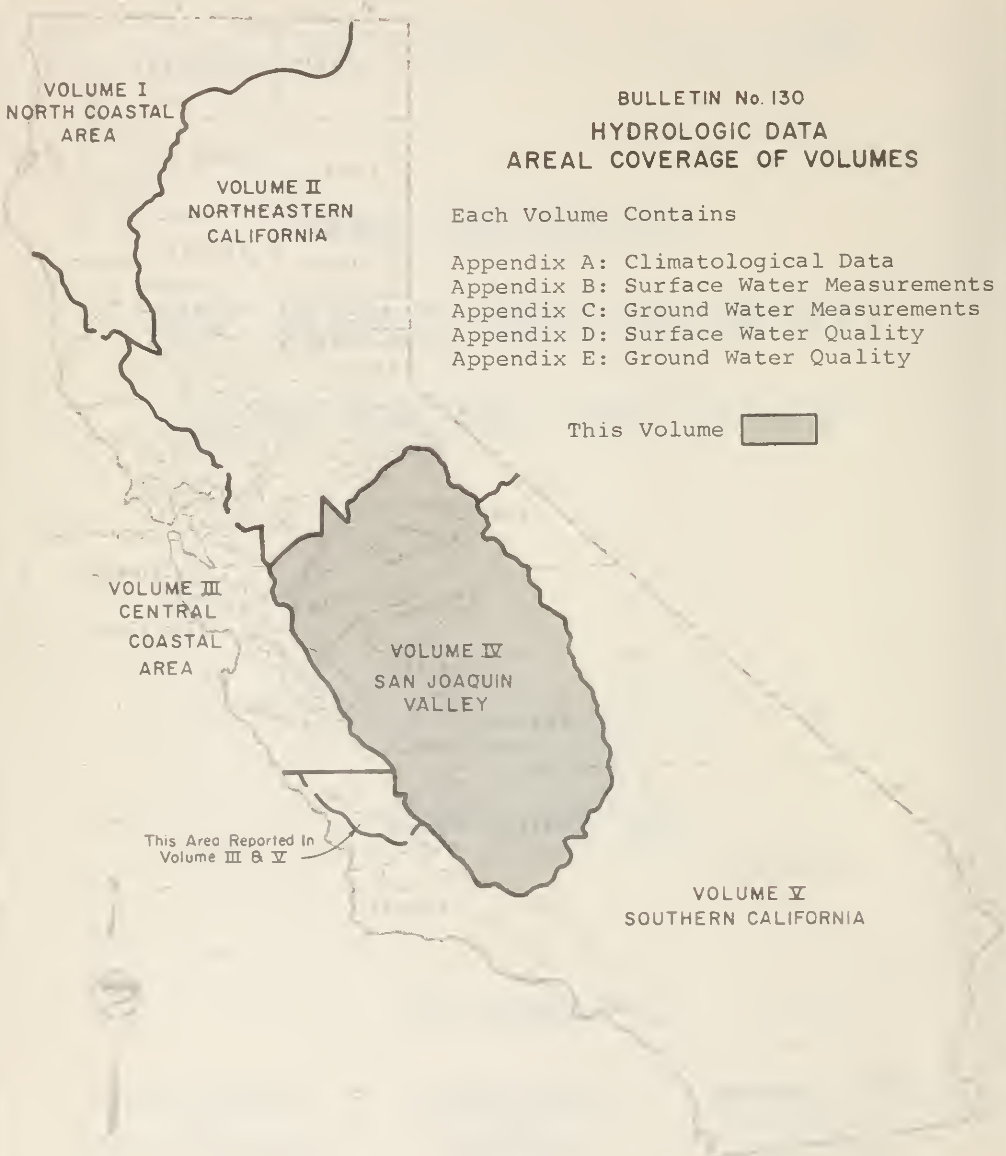
BULLETIN No. 130

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

Each Volume Contains

Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality

This Volume ▨



FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-71 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli

William R. Gianelli, Director
Department of Water Resources
State of California
September 15, 1972

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	
Degrees Fahrenheit (°F)	Degrees Celsius (°C) = (°F-32°)5/9	

TABLE OF CONTENTS

Page

AREAL COVERAGE OF VOLUMES ii

FOREWORD iii

METRIC CONVERSION TABLE iv

ORGANIZATION, DEPARTMENT OF WATER RESOURCES vii

ACKNOWLEDGMENTS ix

ABSTRACT x

APPENDIXES

Appendix A: CLIMATOLOGICAL DATA 1

Introduction 3

FIGURES

Figure Number

A-1 Climatological Observation Stations 4

TABLES

Table Number

A-1 Index of Climatological Stations 11

A-2 Precipitation Data 18

A-3 Storage Gage Precipitation Data 21

Appendix B: SURFACE WATER MEASUREMENT 23

Introduction 25

Alphabetical Index to Tables 26

Hydrographic Area and Stream Basin Index to Surface Water Measurement Stations 27

Unimpaired Runoff 34

Daily Mean Discharge 37

Diversions 91

FIGURES

Figure Number

B-1 Location of Surface Water Measurement Stations 28

TABLES

Table Number

B-1 Annual Unimpaired Runoff 35

B-2 Monthly Unimpaired Runoff 36

B-3 Daily Mean Discharge 38

B-4 Diversions 92

B-5 Diversions and Acreage Irrigated--Eastside Canals and Irrigation Districts 94

B-6 Deliveries from Central Valley Project Canals 95

B-7 Deliveries from California Aqueduct 97

B-8 Imports and Exports 98

B-9 Daily Mean Gage Height 99

B-10 Corrections and Revisions to Previously Published Reports 118

TABLE OF CONTENTS (Continued)

Page

Appendix C: GROUND WATER MEASUREMENT 123

Introduction 125

FIGURES

Figure Number

C-1 Fluctuation of Average Water Level in Selected Areas 126

C-2 Fluctuation of Water Levels in Selected Wells 132

TABLES

Table Number

C-1 Change in Average Ground Water Level in Districts or Areas in the San Joaquin Valley 148

C-2 Change in Average Ground Water Level from 1921 to 1951 and 1951 to 1971 in 18 Ground Water Areas in the San Joaquin Valley 151

C-3 Ground Water Levels at Wells 152

Appendix D: SURFACE WATER QUALITY 159

Introduction 161

FIGURES

Figure Number

D-1 Location of Surface Water Quality Surveillance Stations 163

D-2 Daily Mean Specific Conductance at Selected Stations, San Joaquin Valley 164

TABLES

Table Number

D-1 Surveillance Station Data and Index for Surface Water 162

D-2 Mineral Analyses of Surface Water 167

D-3 Trace Mineral Analyses of Surface Water 172

D-4 Miscellaneous Constituents of Surface Water 175

Appendix E: GROUND WATER QUALITY 177

Introduction 179

TABLES

Table Number

E-1 Mineral Analyses of Ground Water 180

E-2 Trace Mineral Analyses of Ground Water 192

E-3 Miscellaneous Constituents of Ground Water 195

PLATES
(Bound at end of volume)

Plate Number

1 Ground Water Areas and Selected Observation Wells

2 Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951, and 1971

3 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Fall 1970

4 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1971

State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, JR., Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources

This report prepared under the direction of
JOHN R. TEERINK, Deputy Director

by the

SAN JOAQUIN DISTRICT

Carl L. Stetson	District Engineer, San Joaquin District
Floyd I. Bluhm	Chief, Water Supply and Utilization Branch
G. Donald Meixner	Chief, Planning and Investigations Branch

Activities covered by and the preparation of this
report were under the supervision of

Cledith L. Chastain	Chief, Water Supply Unit
Victor B. McIntyre	Chief, Water Quality Unit

Appendixes A, B, and C of this report were prepared by

Harry R. Brenner	Water Resources Technician II
William A. Mancebo	Water Resources Technician II

Assisted by

Robert W. Grimshaw, Supervisor, Modesto Field Office	Water Resources Engineering Associate
Keithal B. Dick	Water Resources Technician II
James H. Davies	Water Resources Technician I
James H. Williams	Water Resources Technician I
Anthony D. Camoroda	Engineering Aid II
Joseph F. Schweizer	Delineator
C. Collette Blair	Stenographer II

Appendixes D and E of this report were prepared by

James M. Windsor	Water Resources Engineering Associate

Assisted by

Bruce A. Butterfield	Assistant Engineer, Water Resources
Donald W. Colburn	Water Resources Technician II
Stanley J. Kuffel	Water Resources Technician I
Roger E. Azevedo	Engineering Aid II
Manuel G. Baldenegro	Engineering Aid II
David M. Conley	Engineering Aid II
Lester S. Obata	Engineering Aid II
Gary J. Riddle	Engineering Aid II
Don H. Takemoto	Engineering Aid II
Carlynn J. Blackwell	Stenographer II

Reviewed and coordinated by Division of Resources Development,
Environmental Quality Branch
Water Resources Evaluation Section

ACKNOWLEDGMENTS

In the collection of data for this bulletin, the Department has been aided by various public and private agencies and by many private citizens. This cooperation is gratefully acknowledged, and it is especially fitting to commend the following agencies:

National Weather Service
U. S. Bureau of Reclamation
U. S. Army Corps of Engineers
U. S. Geological Survey
State Department of Public Health
City and County of San Francisco
City of Modesto
Kern County Water Agency
Kern County Land Company
Buena Vista Water Storage District
Modesto Irrigation District
Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation Department

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the San Joaquin Valley for the 1970-71 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, fall 1970, and spring 1971; profile of ground water levels; ground water areas; and well locations.

APPENDIX A

CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation data in the San Joaquin Valley from July 1, 1970 to September 30, 1971, for stations which are not published by the National Weather Service. Also presented are annual precipitation values from 43 storage gages.

Figure A-1 shows the general location of all climatological observation stations in the San Joaquin Valley for which data are available in department files or files of the National Weather Service.

Table A-1 presents an explanation of column headings and code symbols used, and an index of climatological stations as shown on Figure A-1.

Table A-2 presents monthly precipitation data on 145 of the stations shown in the index.

Table A-3 presents storage gage precipitation data.

Precipitation data for stations shown in the index as still active and not published in this appendix are either published by the National Weather Service, or were not available at time of this publication.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

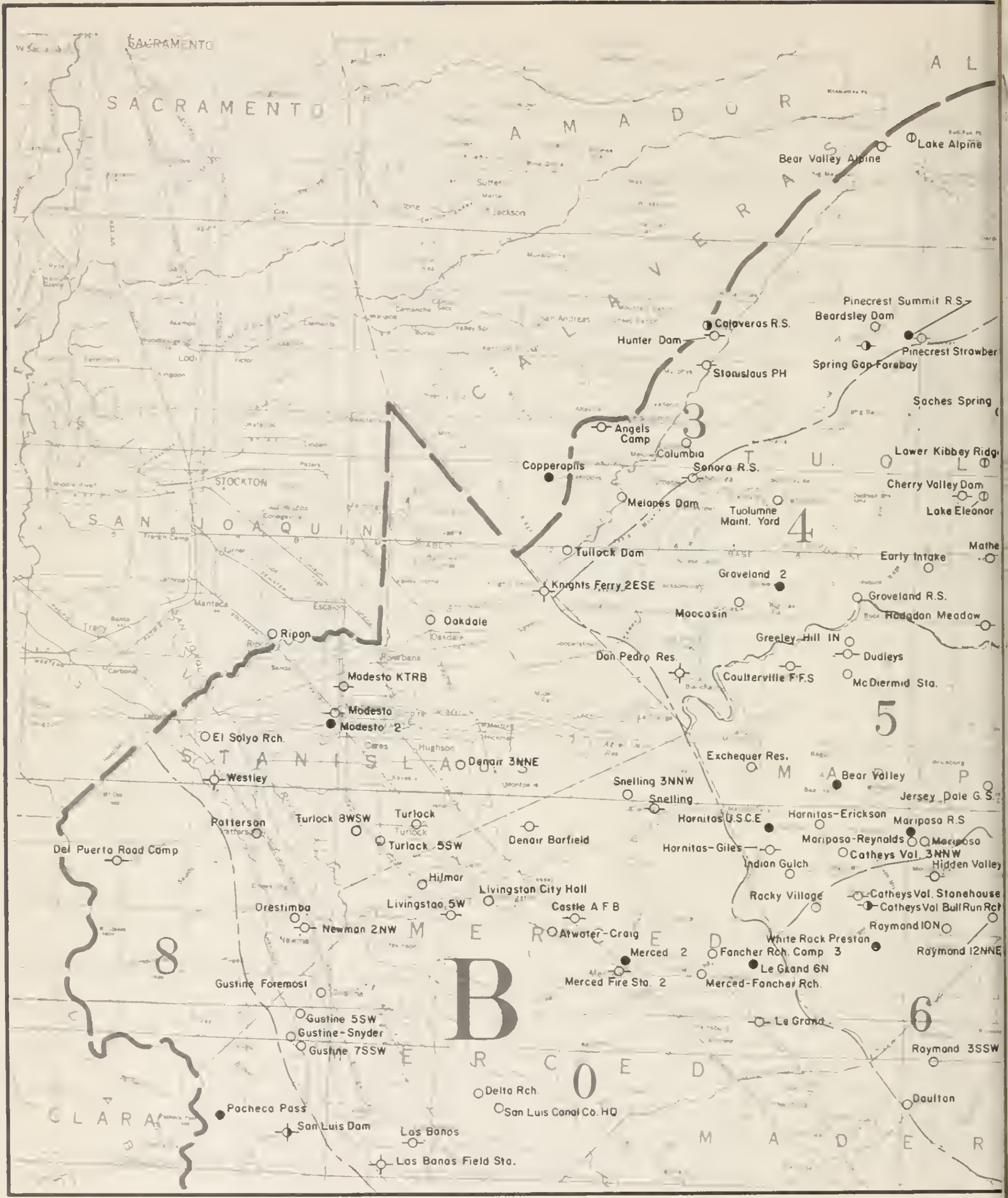
SAN JOAQUIN RIVER BASIN

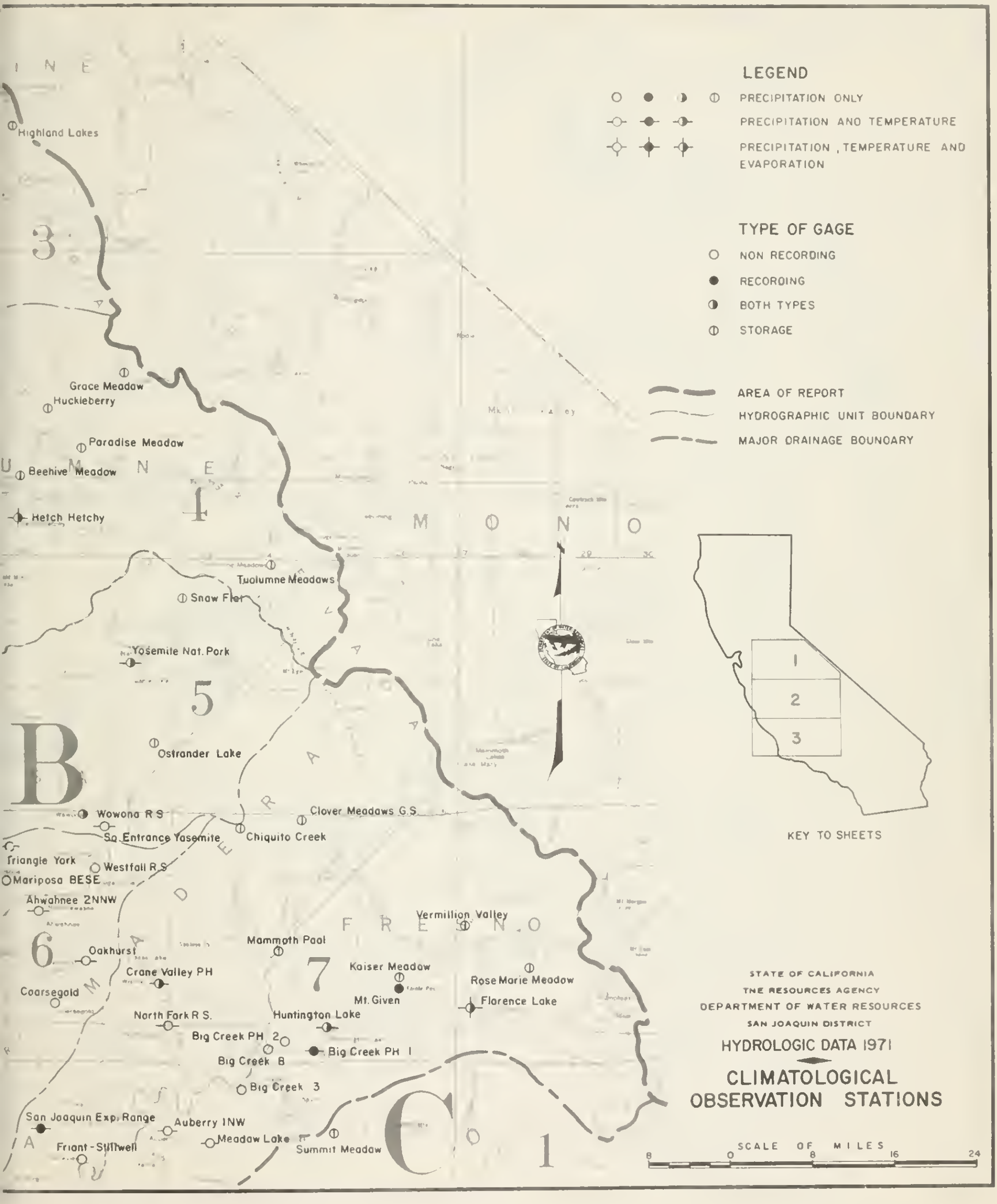
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side

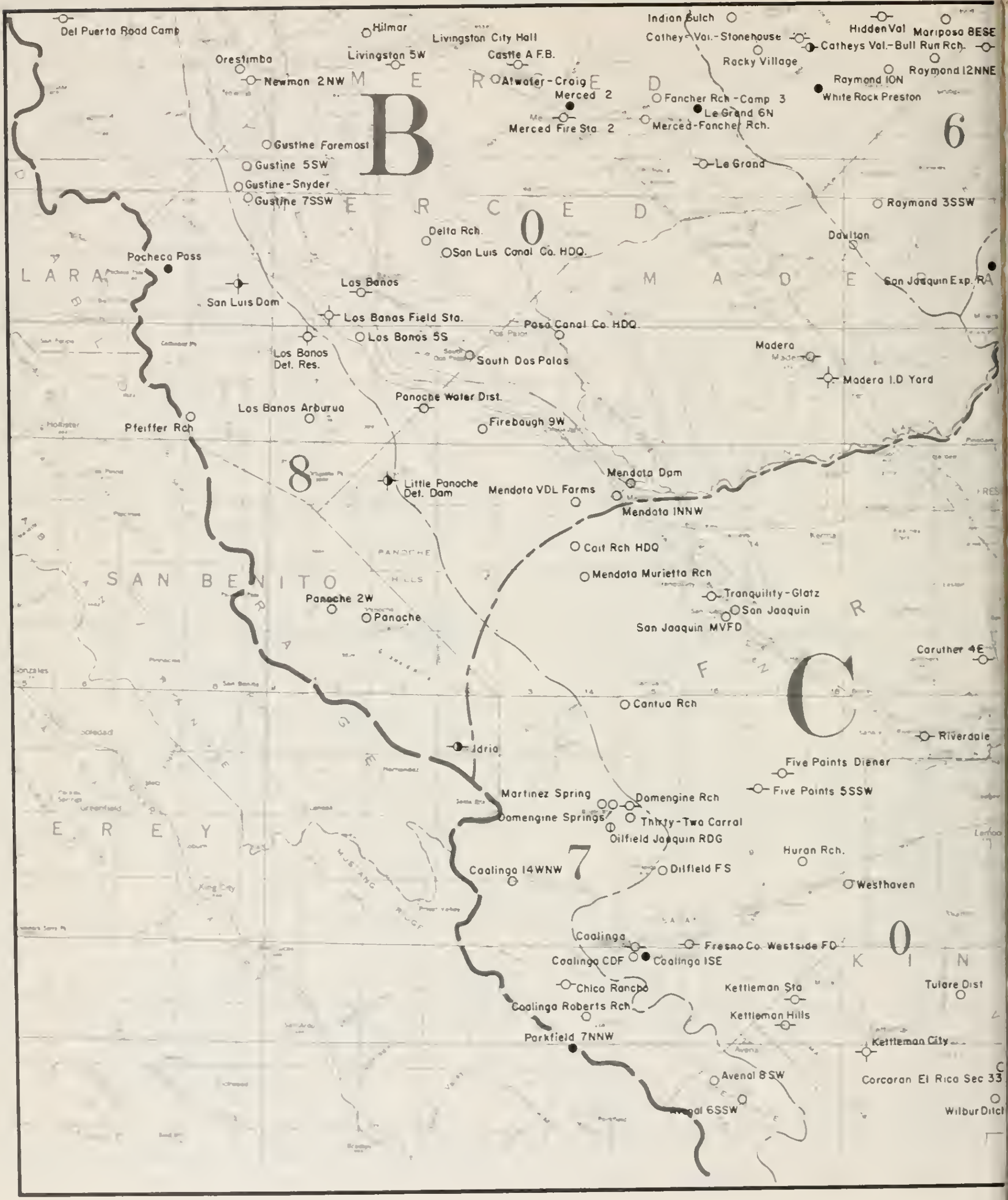

SACRAMENTO
AMADOR
ALPINE
CALAVERAS
SAN JOAQUIN
STOCKTON
STANISLAUS
TUOLUMNE
MARIPOSA
MERCED
MADERA
CLARA
Lake Alpine
Bear Valley Alpine
Pinecrest Summit R.S.
Beardsley Dam
Pinecrest Strawber
Calaveras R.S.
Hunter Dam
Stanislaus PH
Spring Gap Forebay
Saches Spring
Angels Camp
Columbia
Copperopolis
Sonora R.S.
Lower Kibbey Ridge
Cherry Valley Dam
Lake Eleanor
Melones Dam
Tuolumne Maint. Yard
Tullock Dam
Early Intake
Mathe
Knights Ferry 2ESE
Graveland 2
Groveland R.S.
Moccasin
Hodgdon Meadow
Oakdale
Ripon
Greeley Hill IN
Dudleys
Don Pedro Res.
Coulterville F.F.S
McDiermid Sta.
Modesto KTRB
Modesto
Modesto 2
El Solyo Rch.
Denair 3NNE
Exchequer Res.
Bear Valley
Westley
Snelling 3NNW
Snelling
Jersey Dale G.S.
Patterson
Turlock 8WSW
Turlock
Hornitos U.S.C.E
Hornitos-Erickson
Mariposa R.S
Del Puerto Road Camp
Turlock 5SW
Denair Barfield
Hornitos-Giles
Mariposa-Reynolds
Mariposa
Catheys Vol. 3NNW
Indian Gulch
Hidden Valley
Hilmar
Livingston City Hall
Rocky Village
Catheys Vol. Stonehouse
Catheys Vol Bull Run Rch
Orestimba
Livingston 5W
Castle A F B
Newman 2NW
Atwater-Craig
Raymond 10N
White Rock Preston
Merced 2
Fancher Rch. Camp 3
Raymond 12NNE
Le Grand 6N
Gustine Foremost
Merced Fire Sta. 2
Merced-Fancher Rch.
Gustine 5SW
Le Grand
Gustine-Snyder
Gustine 7SSW
Raymond 3SSW
Delta Rch.
Daulton
Pacheco Pass
San Luis Canal Co. HQ
San Luis Dam
Los Banos
Los Banos Field Sta.
3
4
5
6
8
B
0



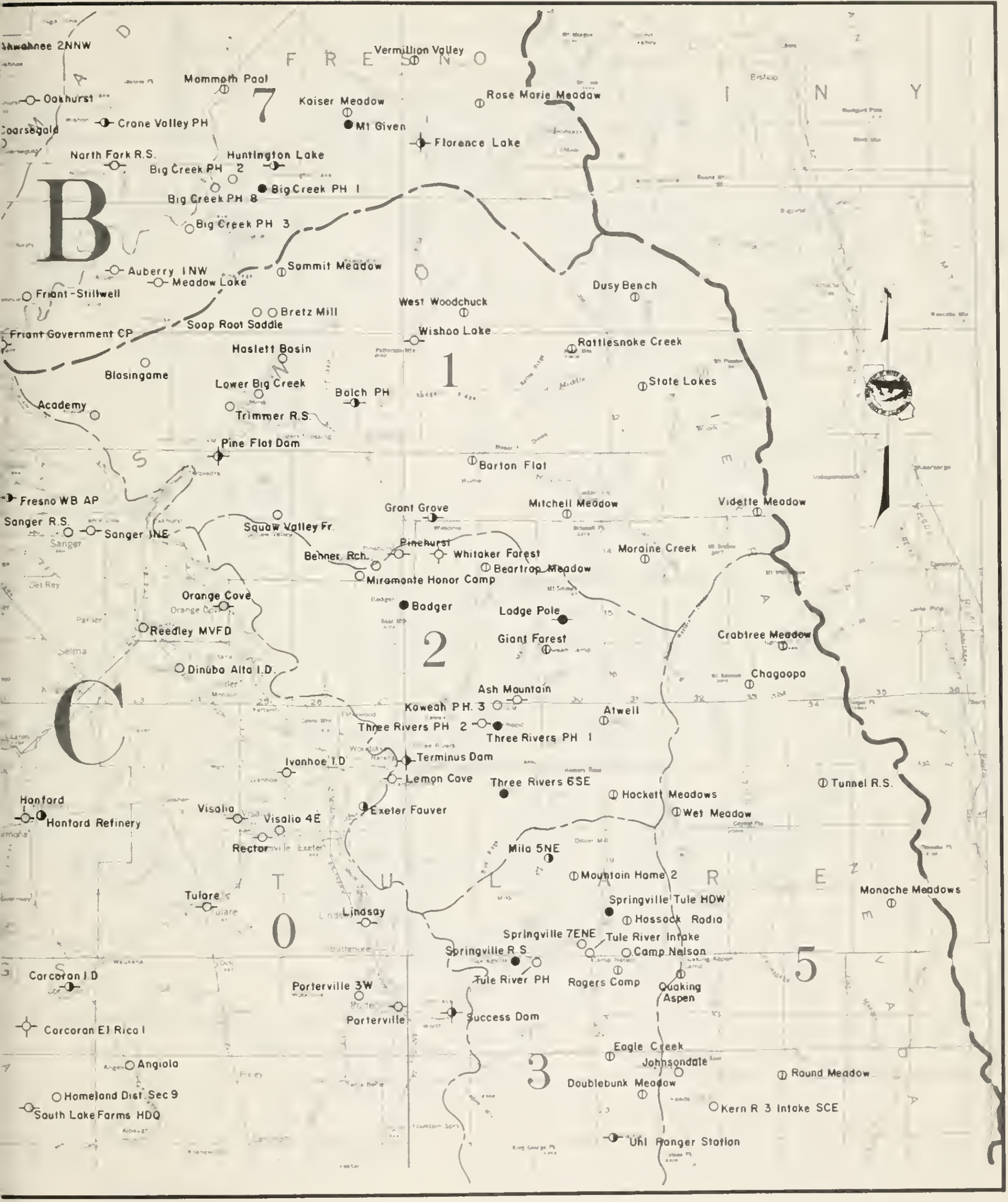
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

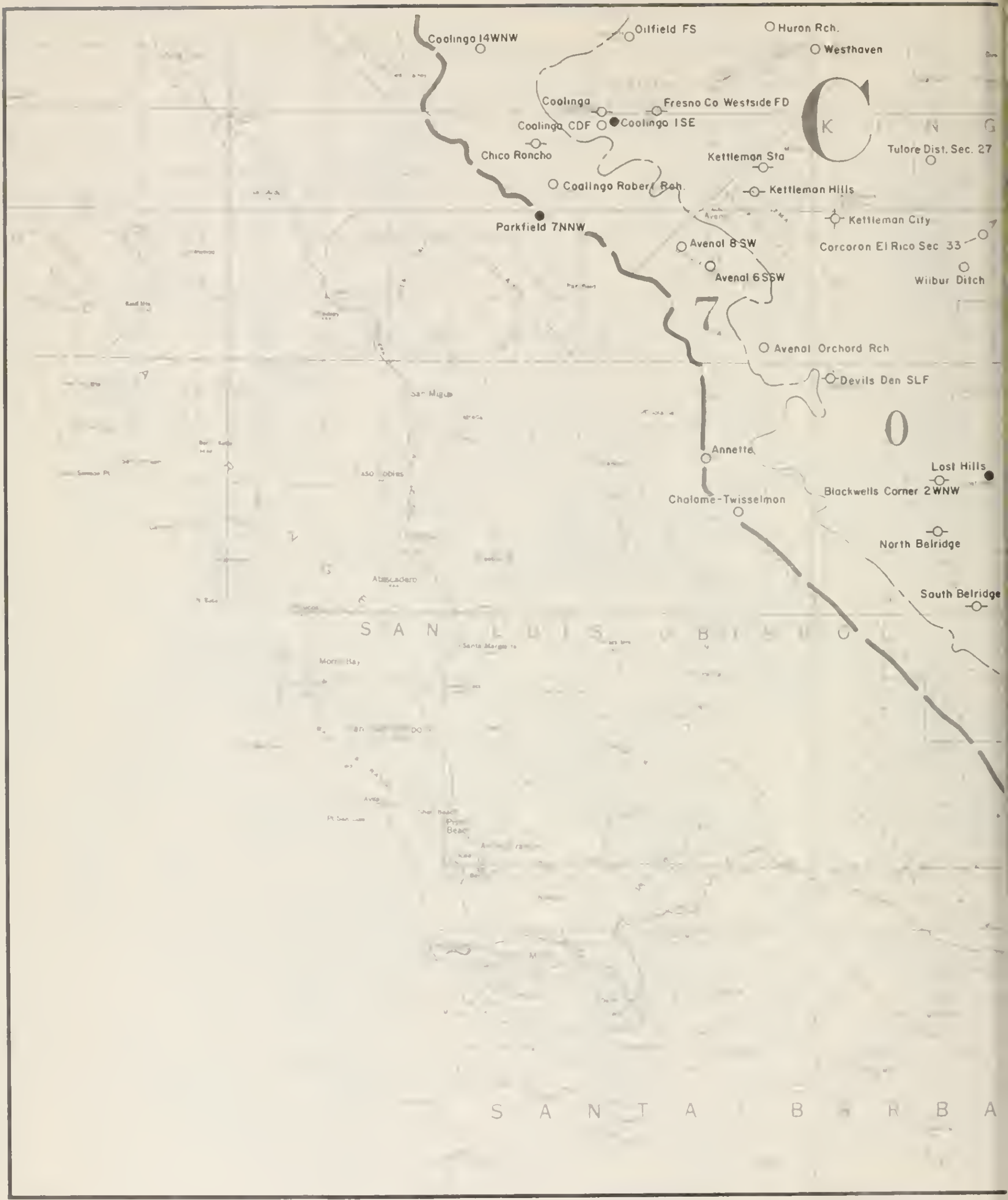
HYDROLOGIC DATA 1971

CLIMATOLOGICAL OBSERVATION STATIONS


Del Puerto Road Camp
Hilmar
Livingston City Hall
Indian Gulch
Hidden Val
Mariposa 8ESE
Orestimba
Livingston 5W
Castle A.F.B.
Cathey Vol.-Stonehouse
Catheys Vol.-Bull Run Rch.
Rocky Village
Newman 2NW
Atwater-Craig
Raymond 10N
Raymond 12NNE
Merced 2
Fancher Rch-Camp 3
White Rock Preston
M E R C E D
B
Merced Fire Sta 2
Le Grand 6N
Merced-Fancher Rch.
6
Gustine Foremost
Gustine 5SW
Le Grand
Gustine-Snyder
Gustine 7SSW
Raymond 3SSW
M E R C E D
0
Delta Rch.
San Luis Canal Co. HDQ.
Dayton
Pacheco Pass
L A R A
M A D E R A
San Luis Dam
Los Banos
San Joaquin Exp. R
Los Banos Field Sta.
Poso Canal Co. HDQ.
Los Banos 5S
Los Banos Det. Res.
South Dos Palos
Madera
Madera I.D. Yard
Panoche Water Dist.
Los Banos Arburua
Firebaugh 9W
Pfeiffer Rch
8
Mendota Dam
Little Panoche Det. Dam
Mendota VDL Farms
Mendota 1NNW
Coit Rch HDQ
Mendota Murietta Rch
S A N B E N I T O
Tranquility-Glatz
San Joaquin
Panoche 2W
Panoche
San Joaquin MVFD
R
Caruther 4E
F
C
Cantua Rch
Riverdale
Idria
Five Points Diener
Five Points 5SSW
Martinez Spring
Domengine Rch
Domengine Springs
Thirty-Two Corral
Oilfield Joaquin RDG
E R E Y
Huron Rch.
7
Coalinga 14WNW
Oilfield FS
Westhaven
Coalinga
Fresno Co. Westside FD
0
K I N
Coalinga CDF
Coalinga ISE
Chico Rancho
Kettleman Sta
Tulare Dist
Coalinga Roberts Rch
Kettleman Hills
Parkfield 7NNW
Kettleman City
Corcoran El Rico Sec 33
Avenal 8SW
Avenal 6SSW
Wilbur Ditch

Sheet 2 of 3 Sheets FIGURE A-1




Coalinga 14WNW
Oilfield FS
Huron Rch.
Westhaven
Coalinga
Fresno Co Westside FD
Coalinga CDF
Coalinga 1SE
Chico Rancho
Kettleman Sta
Tulare Dist. Sec. 27
Coalinga Robert Rch.
Kettleman Hills
Parkfield 7NNW
Kettleman City
Avenal 8 SW
Corcoran El Rico Sec 33
Avenal 6 SSW
Wilbur Ditch
7
Avenal Orchard Rch
Devils Den SLF
Annette
Lost Hills
Blackwells Corner 2WNW
Cholame-Twisselman
North Belridge
South Belridge
K I N G
C O
SAN LUIS OBISPO
SANTA BARBARA

Sheet 3 of 3 Sheets FIGURE A

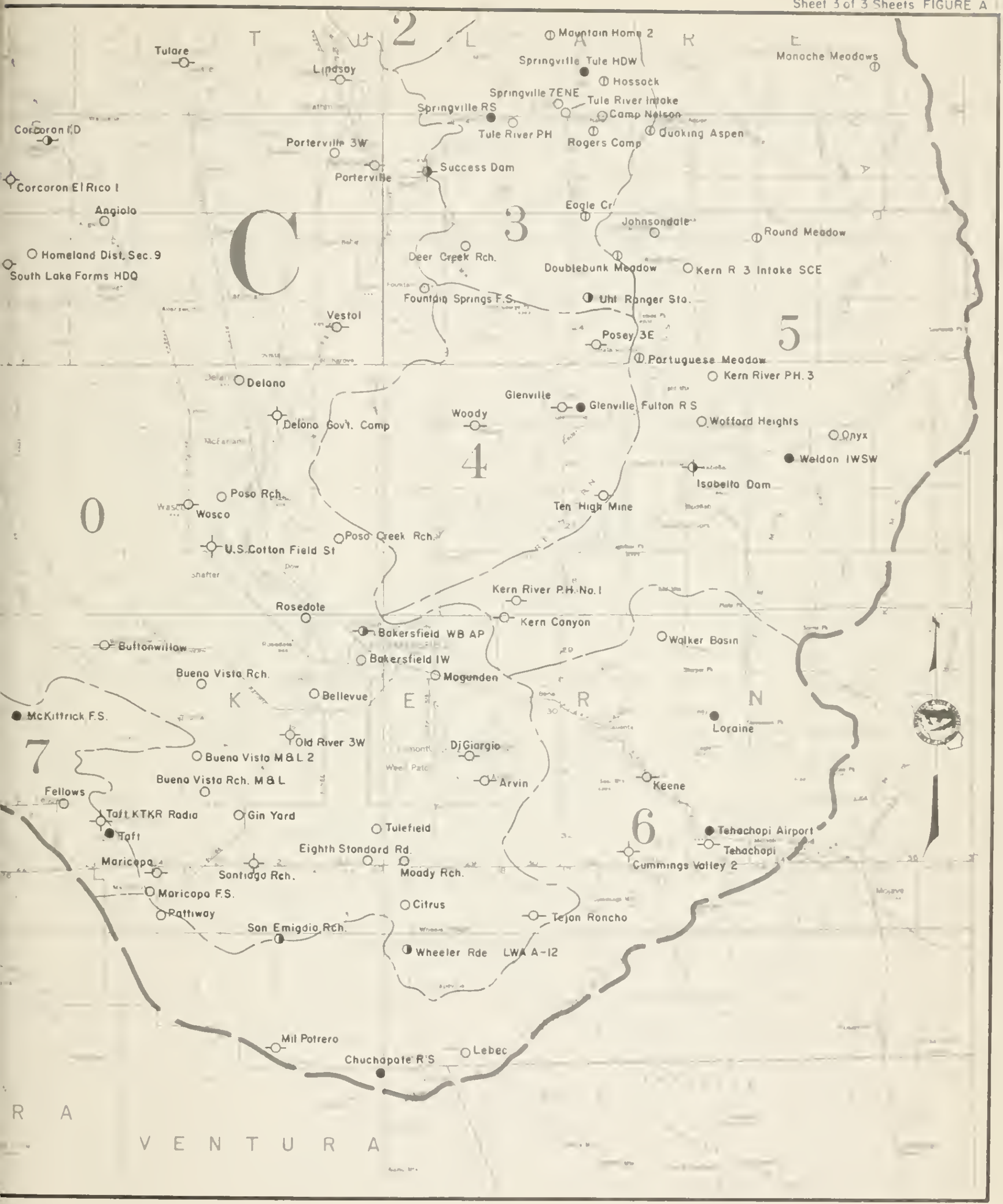


TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

000 -	Private Cooperators
001 - 399	Private Agencies
001	Kern County Land Company
002	Boswell Company
003	P. G. and E. Company
004	Southern California Edison Company
005	California Electric Power Company
010	Amateur Radio Weather Network KTRB
011	Southern Pacific Company
012	Miller and Lux, Inc.
013	Central California Irrigation District
400 - 799	Counties and municipalities
401	Hetch Hetchy Water Supply
404	Oakdale Irrigation District
405	City of Los Angeles, Department of Water & Power
420	Stanislaus County
800 - 899	State
801	Pomology Department, University of California, Davis
804	Division of Beaches and Parks
805	State Department of Fish and Game
806	Department of Water Resources
808	Division of Forestry
809	Division of Highways

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the National Weather Service stations are the same as those used by the National Weather Service. The National Weather Service station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name														
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	M	36 52 58	119 32 25	900		1958	1970		10
B6 0049	AHWAHNEE 2 NNW	2680	SEC 24	T06S	R20E		M	37 23 22	119 44 07	907		1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	M	35 59 25	119 28 42	900		1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E	M	38 04 20	120 32 18	003		1908			05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	M	35 38 48	120 10 12	000		1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E		M	35 12 00	118 49 00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	M	36 29 30	118 49 35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E		M	37 21	120 37	000		1961	1969		24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E		M	36 28 00	118 40 00	900		1948			54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A	M	37 05 40	119 29 50	900		1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	M	35 48 23	120 05 18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	M	35 57 33	120 13 25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	M	35 55 30	120 10 05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	M	36 37 53	119 00 46	900		1940			54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	M	35 22 41	119 02 17	900		1913	1969		15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	M	35 25 38	119 02 34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	M	36 54 33	119 05 15	900		1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E		M	36 49	118 53	900		1961			10
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E	M	38 27 45	120 02 30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E		M	37 34	120 07	903		1960			22
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E		M	38 12 12	120 04 30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E		M	36 41 00	118 52 00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E		M	38 00 00	119 47 00	900		1947	1971		55
C0 0631	BELLEVUE	369	SEC 07	T30S	R27E	B	M	35 20 11	119 05 27	001		1961	1969		15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	M	36 41 05	119 01 50	000		1967			10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	M	37 12 15	119 14 20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	M	37 11 59	119 18 19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	M	37 08 54	119 23 00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	M	37 12 00	119 20 00	004		1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L	M	35 37 15	119 53 40	900		1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E		M	36 57 37	119 26 45	808		1961			10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	M	37 02 18	119 14 24	905		1960			10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	M	35 21 00	119 19 00	001		1944	1969		15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	M	35 11 42	119 11 43	002		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	M	35 14 25	119 18 23	002		1962			15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K	M	35 24 00	119 28 00	900		1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	M	38 11 50	120 21 55	900		1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	M	36 08 17	118 37 36	000		1959	1970		54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	M	36 28 35	120 23 20	000		1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	M	36 32 48	119 45 30	000		1960			10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	M	37 22 03	120 34 20	902		1951			24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H	M	37 23 56	120 03 08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	M	37 28 33	120 06 33	000		1957			22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	M	37 24 30	120 05 00	000		1951	1970		22
C5 1647	CHAGOOPA	10390		T16S	R33E		M	36 30	118 27	901		1964			54
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	M	37 58 00	119 55 00	900		1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	M	36 05 13	120 29 22	000		1969			10
B7 1737	CHIQUITO CREEK	7290	SEC 07	T05S	R24E	N	M	37 30 20	119 23 21	900		1961			20
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R	M	35 35 00	120 07 00	000		1951			40
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W		S	34 48 00	119 01 00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	S	35 02 18	118 58 28	001		1963	1969		15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E		M	37 32	119 17	900		1946			20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	M	36 09 00	120 21 00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	M	36 02 18	120 26 40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	M	36 07 39	120 20 38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E		M	36 14 00	120 34 00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	M	36 08 03	120 22 00	808		1961			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E		M	37 16 00	119 42 00	907		1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	M	36 42 20	120 28 25	000		1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N	M	38 02 22	120 24 37	000		1969			55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	M	37 59 00	120 38 00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	M	36 05 53	119 34 51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E	M	36 02 36	119 38 42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	M	35 57 49	119 42 14	002		1951	1969		16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	M	37 43 25	120 12 12	808		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E		M	36 34 00	118 21 00	000		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	M	37 17 26	119 31 35	003		1903			20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	M	35 07	118 35	806		1961			15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	M	37 07 18	119 59 00	000		1946			20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	M	35 57 15	118 51 28	000		1968	1969		54

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900		1876			15
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904		1952			15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	Q	M	37	25	24	121	22	42	900		1958			50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E		M	37	07	00	120	44	00	013		1949		01	24
B0 2389	DENAIR 3 NNE	137	SEC 20	T04S	R11E		M	37	34		120	47		900		1964			50
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000		1965			24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000		1959			15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000		1937			15
C0 2440-01	DINUBA ALTA I D	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000		1944			54
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000		1959			10
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000		1958	1970		10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904		1940			55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E		M	35	57	00	118	36	00	900		1955			54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900		1909			22
C1 2577	DUSY BENCH	9470		T10S	R31E		M	37	06		118	35		900		1964			10
C3 2591	EAGLE CREEK	6650		T22S	R31E		M	35	59		118	39		903		1964			54
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401		1925			55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E		M	35	06	05	119	01	45	001		1963	1969		15
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000		1953			50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000		1944			39
B5 2920	EXCHEQUER RESERVOIR	4B4	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900		1935			22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900		1938			54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000		1959			24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000		1956			15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000		1934	1969		10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900		1942			10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000		1933			10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900		1940			10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808		1965			54
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900		1899			10
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806		1963			10
B7 3261	FRIANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900		1896			10
B7 3261-05	FRIANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000		1965			20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900		1921			54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002		1960			15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900		1951			15
C4 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900		1940			15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E		M	38	09	00	119	36	00	900		1947	1970		55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900		1924			54
B5 3586-05	GREELEY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000		1965			22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900		1940			55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900		1940			55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000		1927			24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000		1930			24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000		1928			24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000		1958			24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900		1899			16
C0 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000		1964			16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905		1960			10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	56	42	119	46	54	900		1910			55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000		1949			22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900		1960			02
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000		1948			24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E		M	36	22	00	118	39	00	900		1959			54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E		M	37	48		119	52		907		1967			55
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002		1952	1969		16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000		1955			22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000		1939			22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901		1960			22
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E		M	36	11	00	118	37	00	900		1959			54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E		M	38	06	00	119	45	00	900		1948	1971		55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900		1950			05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900		1915			10
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E		M	36	15	41	120	06	05	000		1951			10
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900		1918			35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000		1952	1970		22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	P	M	35	38	46	118	28	45	903		1949			15
C0 4312	IVANHOE I D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000		1954			54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E		M	37	32	36	119	50		905		1958			22
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900		1954			54

TABLE A-I (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name							°	'	"	°	'	"						
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E		M	37	18	00	119	06	00	900		1946			10
C2 4452	KAWEAH PH 3	1370	SEC 33	T16S	R29E	Q	M	36	29	12	118	50	06	004		1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M	35	13	28	118	33	55	000		1948			15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	M	35	26	27	118	47	45	003		1916			15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	M	35	56	43	118	28	33	004		1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	M	35	27	37	118	46	48	900		1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	M	35	46	35	118	26	08	900		1946			15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C	M	35	59	45	119	57	55	900		1930		03	16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F	M	36	01	50	120	06	15	000		1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	M	36	04	28	120	05	08	900		1933			16
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E		M	37	47	54	120	38	42	900		1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M	38	28	42	120	00	48	900		1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M	37	58	00	119	53	00	900		1909			55
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	P	S	34	49	58	118	51	51	900		1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M	37	13	50	120	14	50	900		1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M	37	18	39	120	15	05	000		1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M	36	23	00	119	01	31	900		1899			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M	36	11	24	119	04	20	900		1913			54
B8 4979	LITTLE PANOCHE DET RES	677	SEC 20	T13S	R11E		M	36	47		120	48		900		1968			10
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	M	37	23	10	120	43	15	000		1948		07	24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	M	37	22	29	120	47	40	000		1952			24
C2 5026	LODGEPOLE	6735	SEC 21	T15S	R30E		M	36	36		118	14		900		1968			54
C6 5098	LORAINE	2720	SEC 21	T30S	R33E	K	M	35	18	05	118	25	54	900		1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	M	36	59	02	120	50	45	013		1948			24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q	M	37	00	54	120	53	55	904		1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	M	37	03	00	120	51	00	900		1873			24
B8 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	M	36	52	52	120	56	25	900		1932			24
B8 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E		M	37	01		120	56		900		1968			24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M	35	37	00	119	41	17	900		1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M	36	54	48	119	14	42	905		1960			10
B4 5160	LOWER KIBBEY RIDGE	6500	SEC 22	T02N	R19E		M	38	01	00	119	53	00	900		1948	1971		55
B0 5233-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	M	36	55	15	120	01	12	904		1952			20
B0 5236	MADERA	200	SEC 13	T11S	R18E	P	M	36	58		120	03		900		1950			20
C0 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	M	35	21	42	118	55	18	004		1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	M	37	20	31	119	19	45	905		1947			20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H	M	37	47		121	12		900		1964			39
C7 5338	MARICOPA	680	SEC 31	T12N	R23W	N	S	35	04	48	119	22	58	900		1911			15
C7 5338-01	MARICOPA F S	885	SEC 12	T11N	R24W	E	S	35	04		119	24		000		1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	M	37	29	10	119	58	00	900		1909			22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	M	37	29	20	119	57	55	000		1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	M	37	26	30	119	49	37	000		1952			22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F	M	37	30	04	119	59	05	808		1943			22
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R14E	B	M	36	20	24	120	24	54	000		1959	1970		10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	M	37	53	25	119	51	10	900		1930		21	55
B5 5460	MCDIERMIO STA	2990	SEC 33	T02S	R17E	H	M	37	43	18	120	05	48	000		1959	1969		22
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E	M	35	18	20	119	37	20	000		1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	M	37	04	38	119	26	00	900		1948			10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	M	37	57	10	120	30	53	404		1955	1969		55
B0 5526	MENDOTA 1 NNW	172	SEC 25	T13S	R14E	H	M	36	46	23	120	23	09	013		1941			10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M	M	36	39	05	120	27	20	806		1958			10
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G	M	36	47	15	120	22	12	900		1873			10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q	M	36	44	58	120	28	00	000		1948			10
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E		M	37	17	43	120	29	13	900		1872			24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	M	37	17	47	120	21	09	000		1920			24
B0 5535	MERCED 2	168	SEC 19	T07S	R14E	A	M	37	18	53	120	28	12	900		1938			24
C3 5669	MILO 5 NE	3400	SEC 18	T19S	R30E	C	M	36	16	40	118	46	15	900		1957			54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E	S	34	51	02	119	11	18	000		1966			15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E		M	36	26	00	118	35	00	900		1956	1969		54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M	36	40	00	119	05	00	900		1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E		M	36	45	00	118	43	00	900		1957			10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M	37	48	40	120	18	20	401		1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	M	37	38	48	121	00	02	900		1926			50
B0 5740	MOOESTO KTRB	93	SEC 16	T03S	R09E	J	M	37	40	12	120	58	42	010		1959			50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	M	37	38	36	121	00	29	900		1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E		M	36	13	00	118	10	00	900		1940			54
C0 5822-80	MOODY RCH	405	SEC 34	T32S	R28E		M	35	06	15	118	58	00	001		1963	1969		15
C1 5832	MORAINE CREEK	8840		T14S	R31E		M	36	43		118	34		903		1964			54
C3 5887	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	M	36	14	30	118	42	54	901		1963			54
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	M	37	17		119	06		004		1963	1969		10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M	37	20	33	122	50	00	900		1889			50

TABLE A-I (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station Number	Station Name	Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude °	Latitude '	Latitude "	Longitude °	Longitude '	Longitude "	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	57	119	30	15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000		1880		01	50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808		1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E		M	36	18	00	120	24	00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C	M	35	16		119	16		806		1965			15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	119	18	40	900		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	013		1896			50
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E		M	37	38	00	119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900		1949			24
B8 6675	PANOCHE	1265	SEC 25	T15S	R10E	F	M	36	35	47	120	49	58	900		1922			35
B6 6676	PANOCHE 2 W	1320	SEC 21	T15S	R10E		M	36	36	30	120	52	48	407		1957			35
B0 6679-05	PANOCHE WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E		M	38	03	00	119	40	00	900		1948	1971		55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E		M	37	28	00	121	07	00	000		1912			50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E		M	36	36	00	118	40	00	900		1956	1969		54
B8 6847	PFEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	000		1954			24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E		M	38	12		119	59		905		1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	12	003		1922			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905		1954			10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36	03	58	119	01	14	900		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36	04	50	119	04	14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E		M	35	48	00	118	34	00	900		1953			54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E		M	35	48	00	118	38	00	900		1954		02	54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F	M	35	33	15	119	04	25	000		1967	1969		15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001		1913	1969		15
B0 7099-11	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	30	04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E		M	36	07	00	118	32	00	900		1955			54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E		M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	55	000		1940	1970		20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000		1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37	22	37	119	49	58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36	18	15	119	14	34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E		M	36	37		119	27		808		1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E		M	37	44	33	121	07	21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36	25	58	119	51	36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37	20	45	120	08	42	000		1957			22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E		M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001		1914	1969		15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E		M	37	19	00	118	52	00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E		M	35	58	00	118	21	00	900		1947			54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E		M	38	06	00	119	51	00	900		1948	1971		55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900		1901	1969		15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J	M	36	36	25	120	11	15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E	M	37	05	40	119	43	38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J	M	36	36	28	120	11	18	808		1962	1970		10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E		M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P	M	37	06	07	120	42	04	013		1944			24
C0 7987-80	SANTIAGA RANCH	437	SEC 27	T12N	R22W		S	35	05	35	119	12	35	000		1963	1970		15
B0 8316	SNELLING	259	SEC 04	T05S	R14E		M	37	31	24	120	26	18	000		1882		19	24
B0 8316-05	SNELLING 3 WNW	300	SEC 36	T04S	R13E	J	M	37	32	35	120	28	57	000		1949			24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E		M	37	50	00	119	30	00	900		1947			22
C1 8323-01	SOAPROOT SADDLE	3830	SEC 28	T10S	R25E	P	M	37	01	30	119	15	06	905		1960			10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E		M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R	M	35	27	23	119	42	37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E	M	37	58	45	120	38	48	000		1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H	M	38	10	06	120	06	00	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D	M	36	09	47	118	42	21	900		1953			54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B	M	36	08	09	118	48	40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q	M	36	11	35	118	39	23	900		1907			54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P	M	36	44	58	119	12	21	806		1961			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L	M	38	08	23	120	22	10	900		1957			55

TABLE A-1 (Cont.)

INDEX OF CLIMATOLOGICAL STATIONS

SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract	Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name							°	'	"	°	'	"						
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E		M	36	56	00	118	35	00	900		1955			10
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	M	36	03	00	118	55	00	903		1959			54
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	M	37	05	12	119	12	36	900		1960			10
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	M	35	08	34	119	27	53	900		1940			15
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	M	35	08	50	119	28	18	000		1954			15
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	M	35	08	00	118	27	00	900		1876			15
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	M	35	08	05	118	26	31	900		1940			15
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H	S	35	01	35	118	44	38	900		1895			15
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	M	35	36	49	118	37	30	000		1968			15
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	M	36	24	37	119	00	20	903		1959			54
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	M	36	18	47	120	21	51	000		1959	1970		10
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	M	36	22	00	118	51	00	900		1940			54
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	M	36	27	40	118	52	40	900		1909			54
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	M	36	27	58	118	51	40	900		1940			54
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	M	36	37	57	120	14	13	000		1953			10
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	M	37	29	10	119	49	06	000		1965			22
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	M	36	54	05	119	17	16	905		1948			10
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	M	36	12	45	119	19	50	004		1919			54
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R20E	A	M	36	04	41	119	47	33	002		1953	1969		16
C0 9052	TULEFIELD	300	SEC 18	T32S	R28E	B	M	35	09	00	119	01	00	900		1948	1970		15
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	M	36	09	42	118	42	22	004		1910			54
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	M	36	08	07	118	47	15	004		1910			54
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E		M	36	22	00	118	17	00	900		1945			54
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	M	37	52	30	120	36	12	404		1958			05
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R	M	37	57	55	120	13	55	000		1969			55
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E		M	37	53	00	119	20	00	900		1947			55
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	M	37	29	28	120	51	00	900		1893			50
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	M	37	27	52	120	54	39	000		1958			50
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D	M	37	28	22	120	59	30	000		1958			50
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	M	35	53		118	39		900		1965			54
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	M	35	32	00	119	16	40	906		1922			15
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E		M	37	22	00	118	59	00	900		1946			10
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	M	35	50	24	119	05	12	004		1920			54
C1 9328	VIDETTE MEADOW	9500		T13S	R33E		M	36	45		118	25		901		1964			10
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	M	36	19	45	119	17	18	900		1903			54
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	M	36	19	32	119	13	24	000		1959	1970		54
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	M	35	25	17	118	32	35	000		1968			15
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	M	35	35	35	119	19	57	900		1899			15
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P	M	37	32		119	40		900		1941			22
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	M	35	40	00	118	18	00	900		1940			15
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	M	37	26	58	119	38	59	905		1961			20
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	M	36	13	38	119	59	40	900		1925			10
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	M	37	33	00	121	12	00	000		1928			50
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E		M	37	01	48	118	55	06	903		1969			10
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R	M	36	20	56	118	34	16	900		1959			54
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	M	36	42	05	118	55	56	815		1966			54
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	M	37	20	12	120	02	18	903		1950			22
C0 9670-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	M	35	36	10	119	45	10	000		1962			16
C1 9749	WISHON LAKE	6560	SEC 01	T11S	R27E		M	37	00	40	118	58	20	003		1957			10
C5 9754	WOFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	M	35	43	00	118	27	00	900		1894			15
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	M	35	42	02	118	50	34	808		1956			15
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E		M	37	45	00	119	35	00	900		1904			22

TABLE A-2

PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

-	No record or record incomplete.
*	Amount included in the following measurement. Time distribution unknown.
E	Wholly or partially estimated.
T	Trace, an amount too small to measure.
V	Includes total from previous month.
NR	Data not received before publication.
RB	Record begins.
RE	Record ends.
INC	Incomplete data.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fisher & Porter recording rain gages are used; these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY TO JUNE 30	1970						1971									TOTAL OCT TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	
SAN JOAQUIN R BASIN																	
SAN JOAQUIN VAL FL 80																	
CASTLE AFB	10.84	[illegible]	0.0[illegible]	[illegible]	.72	.29	2.[illegible]	[illegible]	.48	[illegible]	1.[illegible]	[illegible]	[illegible]	T	T	[illegible]	[illegible]
DELTA RCH	9.48	[illegible]	[illegible]	[illegible]	.46	.63	1.96	.52	[illegible]	[illegible]	.62	.14	[illegible]	[illegible]	[illegible]	[illegible]	.48
DENAIR BARFIELD	11.15	[illegible]	[illegible]	[illegible]	.64	.78	2.41	.79	.29	.47	1.1[illegible]	.67	[illegible]	[illegible]	[illegible]	.2	11.1[illegible]
EL SOLYO RCH	11.13	[illegible]	0.0[illegible]	[illegible]	0.52	[illegible]	2.[illegible]	.32	.37	.34	.9[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.13
FANCHER RCH CAMP #3	10.30	[illegible]	0.00	[illegible]	0.63	3.26	2.79	.5[illegible]	[illegible]	[illegible]	.99	.22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
GUSTINE 5 SW	10.56	[illegible]	0.00	[illegible]	0.16	4.15	2.71	.45	.3[illegible]	.73	.8[illegible]	[illegible]	[illegible]	T	[illegible]	.1	[illegible]
GUSTINE SNYDER	11.06	[illegible]	0.00	[illegible]	0.05	4.60	2.89	.65	.26	.11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	11.23
GUSTINE FOREMOST	11.86	[illegible]	[illegible]	[illegible]	.23	5.16	2.82	.41	.32	[illegible]	.94	.92	[illegible]	.0[illegible]	[illegible]	[illegible]	11.86
GUSTINE 7 SSW	10.78	[illegible]	[illegible]	[illegible]	0.21	4.40	2.33	0.67	.36	.77	1.14	.90	[illegible]	0.03	T	T	[illegible]
HILMAR	10.74	[illegible]	0.00	[illegible]	0.39	4.73	2.20	0.69	.37	1.09	.76	[illegible]	[illegible]	0.0[illegible]	[illegible]	T	[illegible]
LE GRAND 6 N	9.68	[illegible]	0.00	[illegible]	0.47	3.16	2.17	0.49	.45	1.1[illegible]	.57	1.2[illegible]	[illegible]	.00	[illegible]	.42	10.1[illegible]
LIVINGSTON CITY HALL	11.25	[illegible]	0.00	T	0.60	3.56	2.89	0.47	.74	1.25	1.01	.73	[illegible]	0.0[illegible]	[illegible]	[illegible]	11.27
LIVINGSTON 5 W	10.23	[illegible]	0.00	0.01	0.58	3.59	2.40	0.66	.34	1.11	.98	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10.23
LOS BANOS 5 S	7.16	[illegible]	0.00	0.00	0.23	2.16	1.99	0.51	.25	.59	.8	.63	[illegible]	0.[illegible]	[illegible]	[illegible]	7.16
LOS BANOS FIELD STA	7.66	[illegible]	0.00	0.00	0.27	2.06	2.12	0.59	.29	0.65	.93	.75	[illegible]	0.0[illegible]	T	0.02	.68
MADERA ID YARD	8.86	[illegible]	0.00	0.00	0.09	1.98	2.65	0.42	.35	.8	.98	.5[illegible]	[illegible]	0.0[illegible]	[illegible]	.04	8.9[illegible]
MENDOTA 1 NNW	6.51	[illegible]	0.00	.00	0.25	1.59	1.85	0.14	.28	.40	0.97	1.03	[illegible]	[illegible]	[illegible]	.06	6.5[illegible]
MENDOTA VDL FARMS	6.39	0.00	0.00	0.00	0.10	1.78	1.59	0.24	.21	0.52	1.[illegible]	0.94	[illegible]	0.00	[illegible]	[illegible]	6.4[illegible]
MERCED FANCHER RCH	10.03	0.00	0.00	0.00	0.61	3.00	2.05	0.62	.51	[illegible]	1.16	[illegible]	[illegible]	[illegible]	[illegible]	.19	10.22
MODESTO KTRB	12.53	0.00	0.00	.00	0.38	5.61	2.29	0.62	.53	1.56	.93	.61	T	[illegible]	[illegible]	[illegible]	12.5[illegible]
OAKDALE	14.26	0.00	0.00	0.00	0.51	6.51	2.72	0.70	.71	1.75	0.66	.70	T	[illegible]	[illegible]	[illegible]	14.32
ORESTIMBA	12.09	0.00	0.00	0.00	0.39	4.68	2.45	0.62	.31	.85	1.91	.88	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
PANOCHE WATER DIST	6.62	0.00	0.00	0.00	0.26	1.98	1.63	0.35	.25	0.53	0.69	.93	[illegible]	0.0[illegible]	[illegible]	[illegible]	6.64
PATTERSON	12.43	0.00	0.00	0.00	0.38	6.30	2.04	0.59	0.28	0.96	1.19	0.69	[illegible]	0.00	T	0.00	12.43
POSO CANAL CO HQ	8.53	0.00	0.00	0.00	0.39	2.52	1.93	0.35	.21	0.62	1.0[illegible]	1.44	[illegible]	.00	[illegible]	0.38	8.91
RIPON	12.59	0.00	0.00	0.00	0.49	5.66	2.06	0.56	0.75	1.53	1.04	0.50	.01	0.00	[illegible]	.14	12.74
SAN LUIS CANAL CO HQ	9.20	0.00	0.00	0.00	0.39	3.72	2.34	0.53	0.34	0.72	0.29	0.87	[illegible]	0.00	T	0.05	9.25
SNELLING	11.83	0.00	0.00	0.00	0.58	3.75	3.02	0.93	.54	1.46	0.90	0.65	[illegible]	0.00	0.00	T	11.83
SNELLING 3 WNW	11.34	0.00	0.00	0.00	0.46	3.62	2.49	1.11	.45	.42	.95	0.84	[illegible]	0.00	[illegible]	[illegible]	11.34
SOUTH DOS PALOS	7.51	0.00	0.00	0.00	0.28	2.45	1.72	0.47	.19	0.59	.74	1.07	[illegible]	0.00	[illegible]	.05	.56
TURLOCK 5 SW	19.38E	0.00	0.00	T	0.60	8.30	3.68	1.60	0.75E	1.90	1.5[illegible]	0.98	[illegible]	0.00	[illegible]	T	19.38E
TURLOCK 8 WSW	12.75E	0.00	0.00	0.00	0.30E	5.75	2.44	0.80	0.48	.16	1.[illegible]7	.75	[illegible]	0.00	[illegible]	.00	12.75E
WESTLEY	10.63E	0.00	0.00	0.00	0.41	4.83E	2.02	0.43	.22	0.94	1.03	0.75	.00	0.00	[illegible]	0.00	.63E
STANISLAUS RIVER 83																	
ANGELS CAMP	26.53	0.00	0.00	0.08	0.89	10.14	7.39	2.70	0.67	3.08	0.68	0.90	0.16	0.00	[illegible]	0.24	26.85
BEARDSLEY DAM	32.98	T	0.00	0.00	0.91	10.71	8.44	2.83	1.16	4.87	1.49	1.80	.77	0.00	.02	0.29	33.29
BEAR VALLEY-ALPINE	31.43	0.00	0.00	0.03	1.67	9.85	5.52	2.46	0.90	4.55	1.63	3.46	1.36	0.12	.14	0.62	32.28
COLUMBIA	25.63	0.00	0.00	0.00	0.76	7.07	7.20	3.43	1.02	3.39	1.23	1.32	0.21	0.00	.00	0.30	25.93
COPPEROPOLIS	20.91E	0.00E	0.00E	0.00E	0.76	8.65	4.71	1.77	0.66	3.21	0.36	0.67E	0.12E	0.00E	[illegible]	0.20E	21.11E
PINECREST STRAWBERRY	44.24	0.00	0.00	0.00	1.00	13.25	10.22	5.63	2.33	5.43	1.98	3.46	0.89	0.05	0.00	0.55	44.79
SPRING GAP FOREBAY	35.88	0.00	0.00	0.00	0.84	9.35	9.93	4.38	1.48	6.15	1.65	2.10	0.00	0.00	[illegible]	0.47	36.35
TULLOCK DAM	17.43	0.00	0.00	0.00	0.77	6.91	3.91	1.57	.63	2.39	.45	0.75	[illegible]	0.00	[illegible]	0.06	.49
TUOLUMNE RIVER 84																	
DON PEDRO RESERVOIR	15.26	0.00	0.00	0.00	0.57	4.62	4.60	1.21	0.81	2.10	.47	0.88	T	0.00	[illegible]	0.05	15.3[illegible]
EARLY INTAKE P H	29.56	0.00	0.00	0.00	0.65	10.36	8.08	2.60	1.31	4.12	.94	1.52	.20	0.00	[illegible]	.31	30.[illegible]
HODGDON MEADOW	38.92E	0.00	0.00	T	0.99	12.00E	10.50E	2.85	2.84	4.79	1.[illegible]	3.13	0.25E	0.05E	.45E	1.22E	40.64E
LAKE ELEANOR	32.08	0.00	0.00	0.00	0.28	11.46	8.49	3.43	1.[illegible]3	3.62	.94	1.60	0.53	0.00	[illegible]	1.14	33.22
MOCCASIN	21.82	0.00	0.00	0.00	0.59	6.90	6.04	2.99	0.77	2.94	[illegible]	0.89	.02	[illegible]	[illegible]	.22	22.[illegible]
TUOLUMNE MAINT YARD	30.47	0.00	0.00	0.00	0.70	9.85	8.88	3.12	0.83	4.48	1.22	1.39	0.15	0.00	0.00	0.44	31.06
MERCED RIVER 85																	
BEAR VALLEY	18.82	0.00	0.00	0.00	0.37	6.61	5.01	1.56	0.96	2.50	0.49	1.32	0.0[illegible]	0.0[illegible]	.00E	0.53E	19.3[illegible]
CATHEYS VALLEY 3 NNW	16.30	0.00	0.00	0.00	0.30	6.10	4.25	1.00	.90	.85	.3[illegible]	1.60	.00	0.00	[illegible]	0.[illegible]	[illegible]
COULTERVILLE FFS	20.61E	0.00	0.00	0.00	0.61	7.00E	5.51	1.48	0.72	3.46	[illegible]	1.13	.02	0.00	[illegible]	0.40	21.[illegible]3E
GREELEY HILL 1 N	29.98	0.00	0.00	0.00	0.57	9.66	8.67	2.73	1.44	3.86	1.[illegible]7	1.98	0.07	0.00	.00	0.71	30.76
HORNITOS ERICKSON RCH	15.26	0.00	0.00	0.00	0.37	5.06	4.32	1.01	0.64	2.20	0.32	1.34	0.00	0.00	.00	.38	15.64
HORNITOS GILES RCH	13.57	0.00	0.00	0.00	0.54	4.86	3.64	0.90	.52	1.64	0.25	1.22	0.00	0.00	[illegible]	0.25	13.82
HORNITOS USCE	12.18E	0.00E	0.00E	0.00E	0.44E	4.55	2.96	0.87	0.49	1.50	0.33	1.04E	0.00E	0.0[illegible]E	[illegible]E	.22E	12.4[illegible]E
INDIAN GULCH	-	-	-	-	RE												
JERSEYDALE G S	28.80	0.00	0.00	0.00	0.43	9.56	8.85	2.42	0.91	2.56	1.23	2.84	[illegible]	0.00	[illegible]	0.62	29.42
MARIPOSA REYNOLDS	22.35	0.00	0.00	0.00	0.39	6.42	7.15	1.61	0.86	2.67	0.73	2.52	0.00	0.00	[illegible]	0.40	22.[illegible]
MARIPOSA R S	21.40E	0.00	0.00	0.00	0.34	6.70	6.56	1.85	1.30	.92	.63	2.10	.00E	0.00E	.00E	.52E	21.92E
FRESNO-CHOWCHILLA R 86																	
AHWAHNEE 2 NNW	24.62	0.00	0.00	0.00	0.34	6.25	7.72	1.69	1.69	2.72	1.[illegible]1	3.17	.03	0.[illegible]3	[illegible]	.54	25.1[illegible]
CATHEYS VAL STONEHOUSE	-	0.00	0.00	0.00	RE												-
COARSEGOLD	23.47	0.00	0.00	0.00	0.31	6.78	7.[illegible]0	.93	1.23	2.35	1.[illegible]	2.79	.00	0.00	T	.43	23.90
DAULTON	11.14	0.00	0.00	0.00	0.11	2.27	3.56	1.12	.41	.32	[illegible]	.65	[illegible]	T	0.[illegible]	.21	[illegible]
HIDDEN VALLEY	23.06	T	0.00	0.00	0.34	7.07	7.48	1.50	0.95	2.28	[illegible]	2.79	T	T	[illegible]	.39	23.45
MARIPOSA 8 ESE	24.03	0.00	0.00	0.00	0.33	5.48	7.36	3.1[illegible]	.96	2.48	[illegible]	3.36	[illegible]	[illegible]	[illegible]	[illegible]	24.[illegible]
OAKHURST	23.22E	0.00E	0.00E	0.00	0.30	6.84	5.25	2.80	1.[illegible]2	3.23	1.[illegible]	2.78	[illegible]	[illegible]	[illegible]	.38	23.[illegible]
RAYMOND 3 SSW	-	-	-	-	RE												-
RAYMOND 10 N	19.36	0.00	0.00	0.00	.26	6.47	.69	.20	.7[illegible]	2.13	.73	2.16	[illegible]	[illegible]	[illegible]	.2[illegible]	19.56
RAYMOND 12 NNE	21.67	0.00	0.00	0.00	.25	6.13	6.98	1.64	1.[illegible]	1.91	[illegible]	2.81	[illegible]	[illegible]	[illegible]	.44	22.1[illegible]
ROCKY VILLAGE	11.72E	[illegible]	0.00	0.00	.3[illegible]E	3.38	3.56	.76	.54	1.25	.19	1.73	[illegible]	[illegible]	[illegible]	.4[illegible]	[illegible]
TRIANGLE-DESMOND	29.55	[illegible]	[illegible]	0.00	.4[illegible]	8.8[illegible]	9.19	2.[illegible]	1.19	3.[illegible]	.9[illegible]	3.14	.2	[illegible]	[illegible]	.61	[illegible]
WESTFALL R S	30.14	0.00	0.00	0.00	.47	8.68	9.83	[illegible]	.88	4.29	1.[illegible]	[illegible]	[illegible]	.14	.3	.95	31.1[illegible]
WHITE ROCK PRESTON	22.21E	[illegible]E	0.00E	0.00E	.3[illegible]E	3.77	3.82	[illegible]	.52	.25	.3[illegible]	.49E	[illegible]E	[illegible]E	[illegible]E	.33E	[illegible]4E
SAN JOAQUIN RIVER 87																	
BIG CREEK PH 2	26.75	0.00	[illegible]	[illegible]	.39	9.[illegible]9	6.89	1.8[illegible]	1.27	2.62	1.4[illegible]	3.[illegible]	[illegible]	.34	[illegible]	.4	27.4[illegible]
BIG CREEK PH 3	23.44	[illegible]	[illegible]	[illegible]	.12	6.29	6.47	2.42	1.44	2.22	1.[illegible]4	2.64	[illegible]	[illegible]	[illegible]	.63	[illegible]4.12
BIG CREEK PH 8	24.66	[illegible]	[illegible]	[illegible]	.26	8.[illegible]2	6.[illegible]4	2.31	1.1[illegible]	2.4[illegible]	1.46	2.[illegible]4	.34	T	[illegible]	.66	[illegible].36
CRANE VALLEY PH	31.93	0.01	0.00	[illegible]	[illegible]7	9.24	[illegible]3	2.84	1.[illegible]6	4.[illegible]1	1.[illegible]	3.[illegible]	[illegible]	.86	[illegible]	[illegible]	32.[illegible]
FRIANT STILLWELL	17.20	0.00	0.00	[illegible]	.1[illegible]	4.27	6.92	.91	.43	.4	2.34	[illegible]	[illegible]	[illegible]	[illegible]	.31	[illegible]
SAN JOAC VAL WESTSIDE 88																	
PANOCHE 2 W	9.12	[illegible]	[illegible]	[illegible]	.24	4.[illegible]9	2.29	.27	.17	.6[illegible]	[illegible]	.69	.00	[illegible]	T	[illegible]	[illegible].11
PFEIFFER RCH		[illegible]E	[illegible]E	[illegible]E												-	

TABLE A-2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN [illegible]

STATION NAME	TOTAL JULY TO JUNE 30	1970 JULY	AUG	SEPT	OCT	NOV	DEC	1971 JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	TOTAL OCT 1 TO SEPT 30
[illegible]																	
[illegible]																	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.33	[illegible]	.98	[illegible]	[illegible]	.05	0.08	6.49
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.98	2.30	[illegible]	.16	.25	[illegible]	.97	[illegible]	[illegible]	[illegible]	0.00	7.30
[illegible]	[illegible]	[illegible]	[illegible]	.4	[illegible]	[illegible]	.63	.24	.23	[illegible]	.54	.56	[illegible]	[illegible]	[illegible]	0.04	3.63
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.28	[illegible]	0.55	.61	[illegible]	0.00	[illegible]	T	3.78
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.65	.26	[illegible]	.11	.73	.49	[illegible]	0.0	[illegible]	.00	5.07
[illegible]											-	-				-	-
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	.93	[illegible]	[illegible]	[illegible]	.76	0.68	[illegible]	[illegible]	T	.00	5.13
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.50	1.50	.33	[illegible]	.37	1.23	.75	[illegible]	[illegible]	.00E	T	5.90E
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.62	.39	.19	[illegible]	.33	.16	[illegible]	[illegible]	[illegible]	0.00	6.19
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	.32	[illegible]	2.94	[illegible]	[illegible]	[illegible]	[illegible]	8.59E
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.16	[illegible]	.19	.20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	6.57
[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.17	.43	.58	[illegible]	[illegible]	[illegible]	[illegible]	0.11	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	1.64	[illegible]	.27	.49	.6	[illegible]	[illegible]	[illegible]	.01	0.05	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.67	[illegible]	[illegible]	.11	[illegible]	.82	[illegible]	[illegible]	[illegible]	0.03	5.37
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.48	1.1	2.8	[illegible]	[illegible]	[illegible]	0.05	11.16
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.18	.13	.74	.74	[illegible]	[illegible]	[illegible]	T	5.39
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.46	[illegible]	[illegible]	.21	.00	0.40	.47	[illegible]	[illegible]	[illegible]	0.02	3.17
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.56	1.41	.49	[illegible]	.29	0.53	1.52	[illegible]	[illegible]	[illegible]	0.02	7.03
[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.05	.77	0.72	[illegible]	[illegible]	[illegible]	0.00	5.28
IVANHOE [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	3.60	2.09	.79	.34	.02	.44	1.15	[illegible]	[illegible]	[illegible]	0.04	[illegible]
KETTLEMAN HILLS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.42	[illegible]	[illegible]	.11	.51	1.19	[illegible]	[illegible]	[illegible]	[illegible]	5.09E
MACUNDEN	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	.65	[illegible]	[illegible]	.38	.43	1.49	[illegible]	.00	[illegible]	[illegible]	6.09
MENDOTA [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.21	1.71	1.71	[illegible]	.11	.39	1.21	1.21	[illegible]	[illegible]	T	T	6.90E
NORTH BELRIDGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.31	[illegible]	[illegible]	.14	.10	.76	0.41	[illegible]	[illegible]	[illegible]	T	3.96
OILFIELD FS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.40	.84	[illegible]	[illegible]	.11	1.05	.44	[illegible]	[illegible]	[illegible]	T	5.17
[illegible] RIVER [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	1.44	[illegible]	.44	.29	.23	1.17	.96	[illegible]	T	[illegible]	[illegible]	5.41
PORTERVILLE [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.1	[illegible]	[illegible]	[illegible]	.42	.49	2.12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.64	[illegible]	.62	[illegible]	.28	.61	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]
REEDLEY MVFD	[illegible]	T	[illegible]	[illegible]	T	2.82	[illegible]	.62	.19	[illegible]	.69	2.64	[illegible]	[illegible]	[illegible]	[illegible]	9.53
RIVERDALE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.23	.29	[illegible]	.53	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]
SANGER [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2.28	.49	.43	.74	.97	[illegible]	[illegible]	[illegible]	T	.13	10.14
SANGER [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.92	2.39	.32	.49	.58	[illegible]	2.36	0.00	[illegible]	[illegible]	[illegible]	8.85
SAN JOAQUIN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.31	2.04	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.00	[illegible]	[illegible]	T	[illegible]
SAN JOAQUIN MVFD		[illegible]	[illegible]	[illegible]	RE												
SANTIAGA RCH		[illegible]	[illegible]	[illegible]	RE												-
SOUTH BELRIDGE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.81	[illegible]	.12	[illegible]	[illegible]	.54	.00	[illegible]	[illegible]	[illegible]	3.87
SOUTH LAKE FARMS [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.11	[illegible]	.21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	6.39
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.5	.28	.18	.36	.87	[illegible]	[illegible]	T	T	[illegible]	[illegible]
TULARE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]
[illegible] COTTON FIELD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.91	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.36	[illegible]	[illegible]	.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]																	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1.11	[illegible]	[illegible]	.12	[illegible]	.92	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]																	
[illegible]		[illegible]		[illegible]	[illegible]												
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	T	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.94	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4.74	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	6.29	[illegible]	[illegible]	.74	2.24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]																	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	6.4					[illegible]	[illegible]			[illegible]	[illegible]	
[illegible]																	
[illegible]		[illegible]															
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.62	[illegible]	2.23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	T	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]																	
[illegible]	[illegible]	T	[illegible]	[illegible]	[illegible]	[illegible]	2.4	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]																	
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]																	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]																	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE A-3
STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1970 71 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	7- 8-70	6-30-71	36.0[illegible]
LAKE ALPINE	DEPT OF WATER RESOURCES	7- 8-70	6-30-71	62.40
TUOLUMNE RIVER B4				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	9-15-70	9-14-71	45.56
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	9-17-70		RE
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	9-18-70	9-19-71	48.66
LOWER KIBBY RIDGE	HETCH HETCHY WATER SUPPLY	9- 9-70	9-22-71	50.76
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	9-16-70	9-16-71	48.96
SACHES SPRINGS	HETCH HETCHY WATER SUPPLY	9- 9-70	9-22-71	51.70
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	7- 7-70	6-29-71	27.80
MERCED RIVER B5				
BADGER PASS	NATIONAL PARK SERVICE	9-30-70	9-30-71	49.83
OSTRANDER LAKE	NATIONAL PARK SERVICE	7-15-70		NR
SNOW FLATS	DEPT OF WATER RESOURCES	7- 7-70	6-29-71	43.50
SAN JOAQUIN RIVER B6				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	7- 6-70	6-28-71	38.50
CLOVER MEADOW	DEPT OF WATER RESOURCES	7- 6-70	6-28-71	38.55
KAISER MEADOW	SO CALIF EDISON COMPANY	10- 6-70	9-29-71	46.13
MAMMOTH POOL	SO CALIF EDISON COMPANY	10- 7-70	9-30-71	30.61
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	10- 7-70	10- 5-71	37.15
VERMILION VALLEY	SO CALIF EDISON COMPANY	10- 5-70	9-29-71	28.80
TULARE LAKE BASIN				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	9-14-70	9-13-71	19.45
DUSY BENCH	DEPT OF WATER RESOURCES	9-12-70	9-11-71	22.86
MORAINE CREEK	U S CORPS OF ENGINEERS	9-16-70	9-15-71	24.30
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-15-70	9-14-71	35.40
STATE LAKES	FRESNO STATE COLLEGE	9-15-70		INC
SUMMIT MEADOW	DEPT OF WATER RESOURCES	7- 9-70	7- 1-71	42.45
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-16-70	9-15-71	23.40
WEST WOODCHUCK	FRESNO STATE COLLEGE			INC
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	8-10-70	9-15-71	33.10
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	9-17-70	9-13-71	37.20
HOCKETT MEADOW	U S CORPS OF ENGINEERS	8-11-70	9-29-71	28.95
GIANT FOREST	U S CORPS OF ENGINEERS	9-16-70	9-15-71	37.20
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	8-11-70	9-28-71	27.60
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	8-27-70	9-27-71	37.25
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	8-27-70	9-16-71	31.75
ROGERS CAMP	U S CORPS OF ENGINEERS	8-27-70	9-2[illegible]-71	30.15

RE - Record ends.
NR - Data not received before publication.
INC - Incomplete data.

TABLE A-3 (Cont.)

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1970-71 Season		
		Measurement Period		Precipitation In Inches
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	8-11-70	9-29-71	23.25
CRABTREE MEADOW	DEPT OF WATER RESOURCES	9-11-70	9-17-71	16.00
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	8-26-70		RE
MONACHE MEADOW	DEPT OF WATER RESOURCES	9-16-70	9-14-71	11.10
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	8-24-70	8-16-71	41.10
QUAKING ASPEN	U S CORPS OF ENGINEERS	8-26-70		RE
ROUND MEADOW	U S CORPS OF ENGINEERS	8-25-70	8-17-71	33.10
TUNNEL R S	DEPT OF WATER RESOURCES	9-16-70	9-14-71	12.97
WET MEADOW	U S CORPS OF ENGINEERS	8-12-70	9-29-71	31.60
TULARE LAKE BASIN WESTSIDE C7				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	5- 8-70		INC

APPENDIX B

SURFACE WATER MEASUREMENT

INTRODUCTION

This appendix presents surface water data for the 1971 water year, which is from October 1, 1970 to September 30, 1971. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, and corrections and revisions to previously published reports.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B

SAN JOAQUIN RIVER BASIN

B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

HYDROGRAPHIC AREA C

TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California
   Part 1, Surface Water Records
   Volume 2: Northern Great Basin and Central Valley
   United States Department of the Interior
   Geological Survey
   Prepared in cooperation with the California Department of Water Resources
   and with other agencies.

2. Kings River Watermaster Report
   Kings River Water Association

3. Water Supply
   Fresno Field Division, U. S. Bureau of Reclamation

4. Bulletin 120, Water Conditions in California, Fall Issue
   Department of Water Resources

5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970
   Department of Water Resources
   This index contains the period of record--with number of years missing--and more
   information for 800± stations in the San Joaquin Valley area. The index also
   identifies the agency from which a particular record may be obtained.

ALPHABETICAL INDEX TO TABLES

DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

	Page Daily Mean Discharge	Page Daily Mean Gage Height
Bean Creek near Coulterville	61	
Bear Creek below Bear Reservoir	54	
at McKee Road near Merced	55	
at Merced Irrigation District West Boundary	56	
Buena Vista Creek near Taft	90	
Burns Creek below Burns Reservoir	57	
Campbell-Moreland Ditch above Porterville	82	
Chowchilla River near Raymond	49	
West Fork near Mariposa	48	
Cross Creek below Lakeland Canal #2	78	
Delta-Mendota Canal near Tracy	40	
to Mendota Pool	41	
Dry Creek near Modesto	71	110
Eastside Bypass near El Nido	50	
Fresno River Eight Miles West of Madera	47	
Lewis Fork near Oakhurst	44	
Friant-Kern Canal Delivery to Porter Slough	79	
to Tule River	80	
Hubbs-Miner Ditch at Porterville	87	
James Bypass near San Joaquin	39	
Kern River near Bakersfield	89	
Kings River, South Fork, below Empire Weir #2	77	
Mariposa Creek near Catheys Valley	51	
below Mariposa Reservoir	52	
Maxwell Creek at Coulterville	62	
Merced River at Cressey	64	104
below Snelling	63	103
Miami Creek at Highway 49 near Ahwahnee	46	
near Oakhurst	45	
Mustang Creek near Ballico	65	
Orestimba Creek near Crows Landing	66	
Owens Creek below Owens Reservoir	53	
Panoche Drain near Dos Palos	59	
Poplar Ditch near Porterville	86	
Porter Slough at Porterville	83	
Porter Slough Ditch at Porterville	84	
Salt Slough near Stevinson	60	
San Joaquin River at Crows Landing Bridge	67	106
near Dos Palos	43	
at Fremont Ford Bridge		102
below Friant	38	100
at Maze Road Bridge	73	113
near Mendota	42	
near Newman		105
at Patterson Bridge	68	107
near Stevinson	58	101
near Vernalis	76	117
Stanislaus River at Koetitz Ranch	75	116
at Orange Blossom Bridge	74	114
at Ripon		115
Tulare Lake		99
Tule River below Porterville	81	
Tuolumne River at Hickman Bridge	70	109
at La Grange Bridge	69	108
at Modesto		111
at Tuolumne City	72	112
Vandalia Ditch near Porterville	85	
Woods-Central Ditch near Porterville	88	

DIVERSIONS
- Deliveries from California Aqueduct 97
- Deliveries from Central Valley Project Canals 95
- East Side Canals and Irrigation Districts 94
- San Joaquin River, Fremont Ford Bridge to Gravelly Ford 92
- Tule River 93

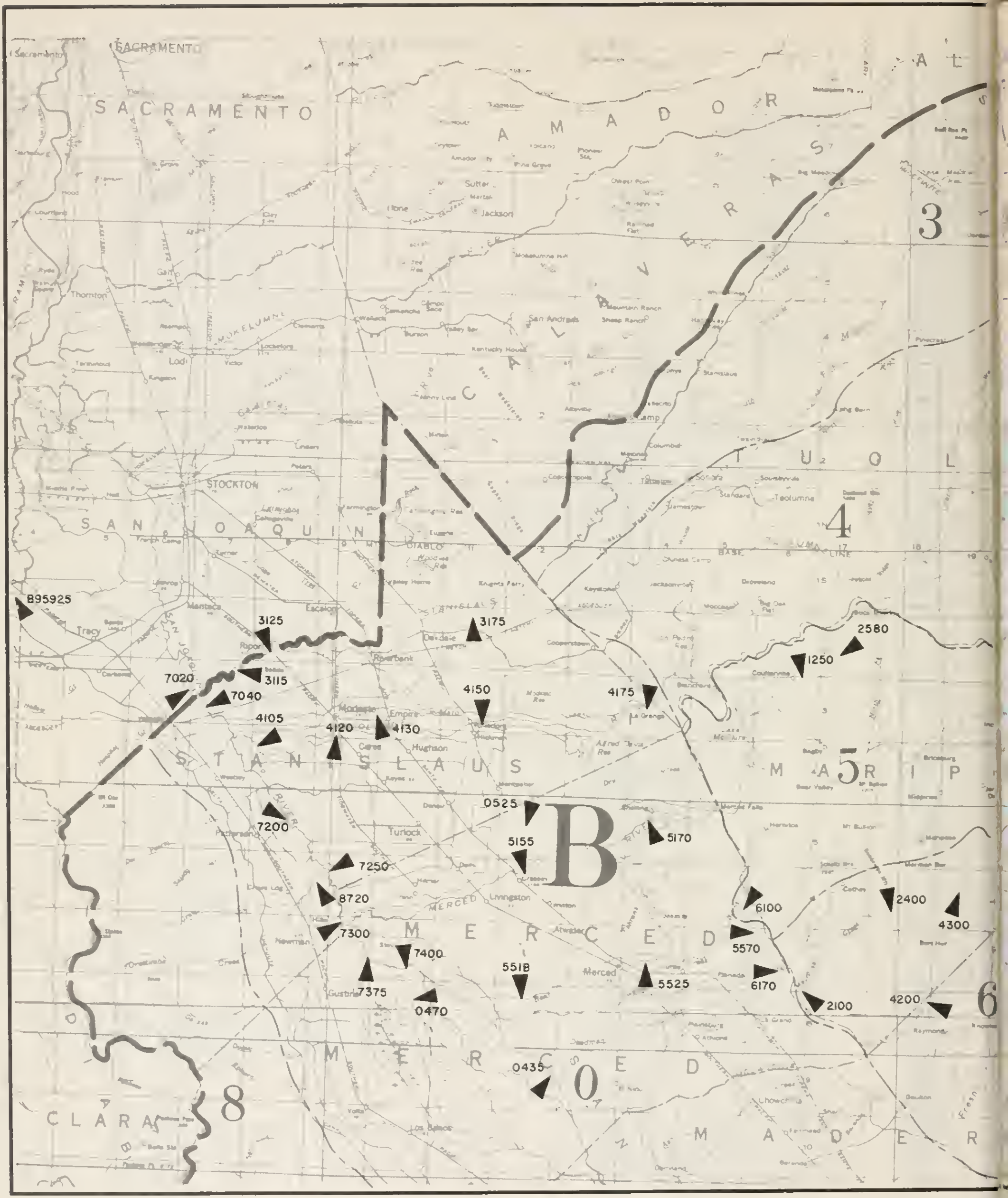
IMPORTS AND EXPORTS 98

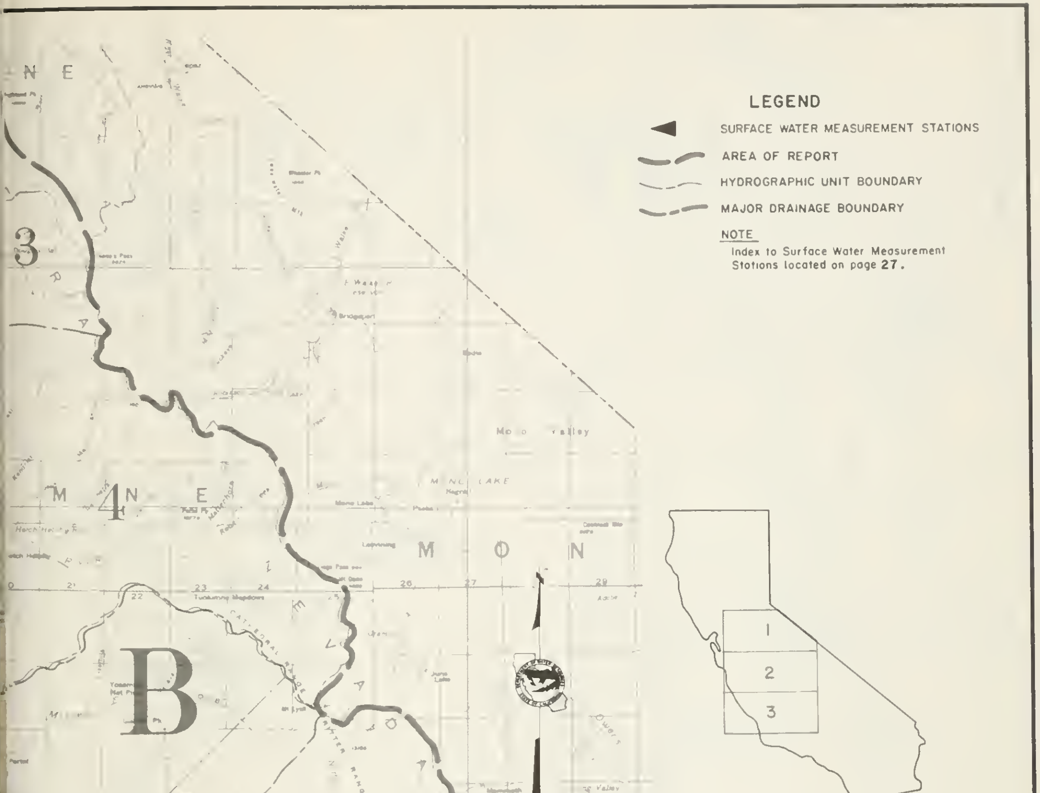
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS 118

UNIMPAIRED RUNOFF
- Annual 35
- Monthly 36

HYDROGRAPHIC AREA AND STREAM BASIN INDEX TO SURFACE WATER MEASUREMENT STATIONS

		Page	
Station Number		Daily Mean Discharge	Daily Mean Gage Height
	HYDROGRAPHIC AREA B		
	SAN JOAQUIN VALLEY FLOOR		
B00435	Eastside Bypass near El Nido	50	
0470	Salt Slough near Stevinson	60	
0525	Mustang Creek near Ballico	65	
0770	Delta-Mendota Canal to Mendota Pool	41	
0975	Panoche Drain near Dos Palos	59	
3115	Stanislaus River at Koetitz Ranch	75	116
3125	at Ripon		115
3175	at Orange Blossom Bridge	74	114
4105	Tuolumne River at Tuolumne City	72	112
4120	at Modesto		111
4130	Dry Creek near Modesto	71	110
4150	Tuolumne River at Hickman Bridge	70	109
4175	at La Grange Bridge	69	108
5155	Merced River at Cressey	64	104
5170	below Snelling	63	103
5518	Bear Creek at Merced Irrigation District West Boundary	56	
5525	at McKee Road near Merced	55	
5570	below Bear Reservoir	54	
6170	Owens Creek below Owens Reservoir	53	
6725	Fresno River Eight Miles West of Madera	47	
7020	San Joaquin River near Vernalis	76	117
7040	at Maze Road Bridge	73	113
7200	at Patterson Bridge	68	107
7250	at Crows Landing Bridge	67	106
7300	near Newman		105
7375	at Fremont Ford Bridge		102
7400	near Stevinson	58	101
7610	near Dos Palos	43	
7710	near Mendota	42	
7885	below Friant	38	100
8720	Orestimba Creek near Crows Landing	66	
	MERCED RIVER		
B51250	Maxwell Creek at Coulterville	62	
2580	Bean Creek near Coulterville	61	
6100	Burns Creek below Burns Reservoir	57	
	FRESNO - CHOWCHILLA RIVERS		
B62100	Mariposa Creek below Mariposa Reservoir	52	
2400	near Catheys Valley	51	
4200	Chowchilla River near Raymond	49	
4300	West Fork, near Mariposa	48	
7285	Miami Creek at Highway 49 near Ahwahnee	46	
7300	near Oakhurst	45	
7325	Fresno River, Lewis Fork near Oakhurst	44	
	SACRAMENTO - SAN JOAQUIN DELTA		
B95925	Delta-Mendota Canal near Tracy	40	
	HYDROGRAPHIC AREA C		
	TULARE LAKE VALLEY FLOOR		
C00200	James Bypass near San Joaquin	39	
1120	Kings River, South Fork, below Empire Weir #2	77	
2602	Cross Creek below Lakeland Canal #2	78	
3110	Tulare Lake		99
3169	Tule River below Porterville	81	
3182	Porter Slough at Porterville	83	
3913	Friant-Kern Canal Delivery to Porter Slough	79	
3923	to Tule River	80	
3925	Hubbs-Miner Ditch at Porterville	87	
3948	Woods-Central Ditch near Porterville	88	
3960	Poplar Ditch near Porterville	86	
3965	Vandalia Ditch near Porterville	85	
3970	Campbell-Moreland Ditch above Porterville	82	
3984	Porter Slough Ditch at Porterville	84	
5150	Kern River near Bakersfield	89	
7120	Buena Vista Creek near Taft	90	


SACRAMENTO
AMADOR
CALAVERAS
SAN JOAQUIN
STANISLAUS
TUOLUMNE
MARIPOSA
MERCED
MADERA
CLARA
STOCKTON
Sacramento
Thornton
Lodi
Tracy
Manteca
Ripon
Escalon
Riverbank
Oakdale
Modesto
Empire
Ceres
Hughson
Turlock
Patterson
Newman
Gustine
Livingston
Atwater
Merced
Los Banos
Chowchilla
Sonora
Jackson
Ione
Sutter
San Andreas
Raymond
3
4
5
6
8
0
B
B95925
3125
3115
3175
7020
7040
4105
4120
4130
4150
4175
1250
2580
0525
7200
5155
5170
7250
8720
7300
7400
7375
0470
5518
5525
5570
6100
6170
2100
2400
4300
4200
0435

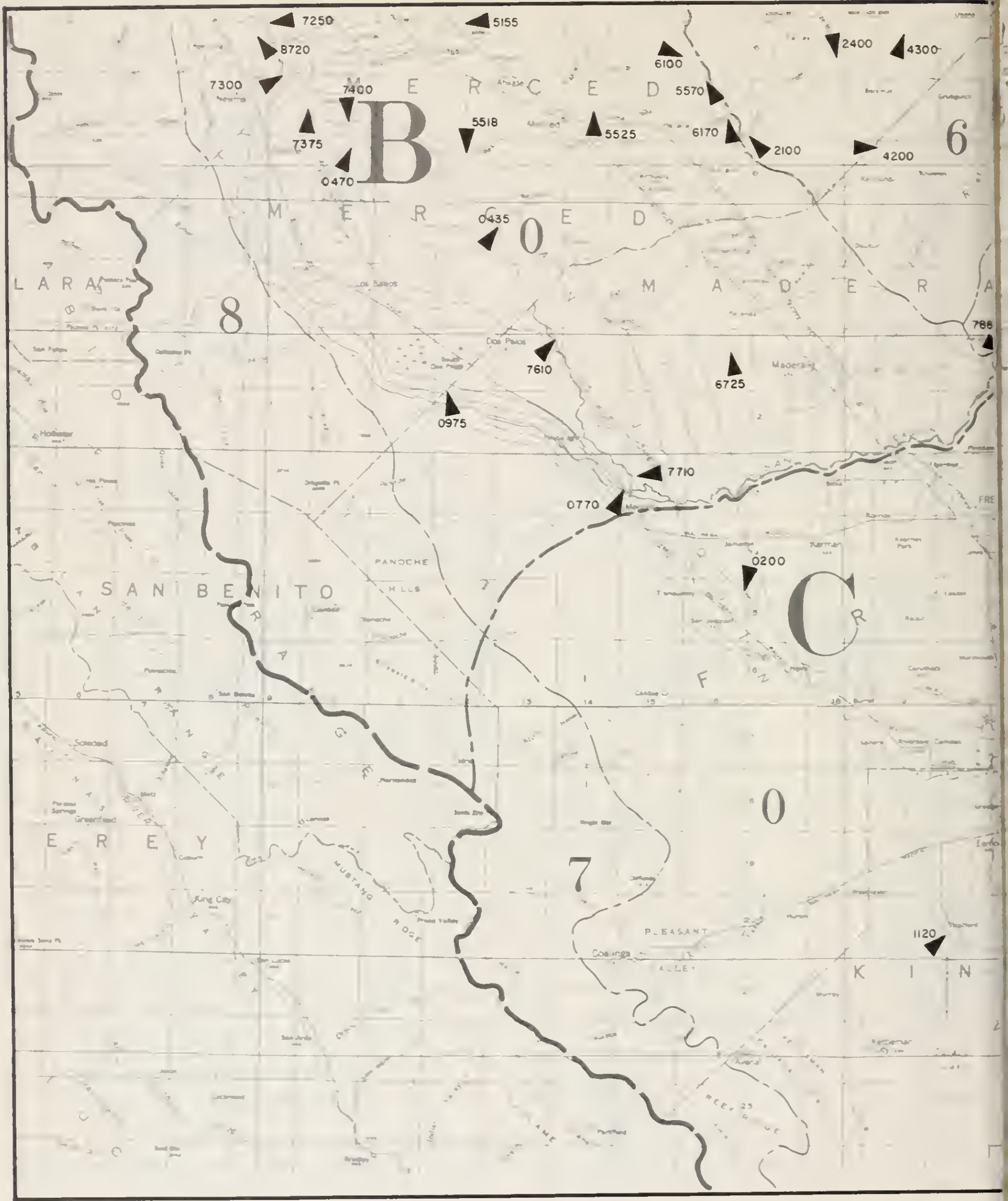


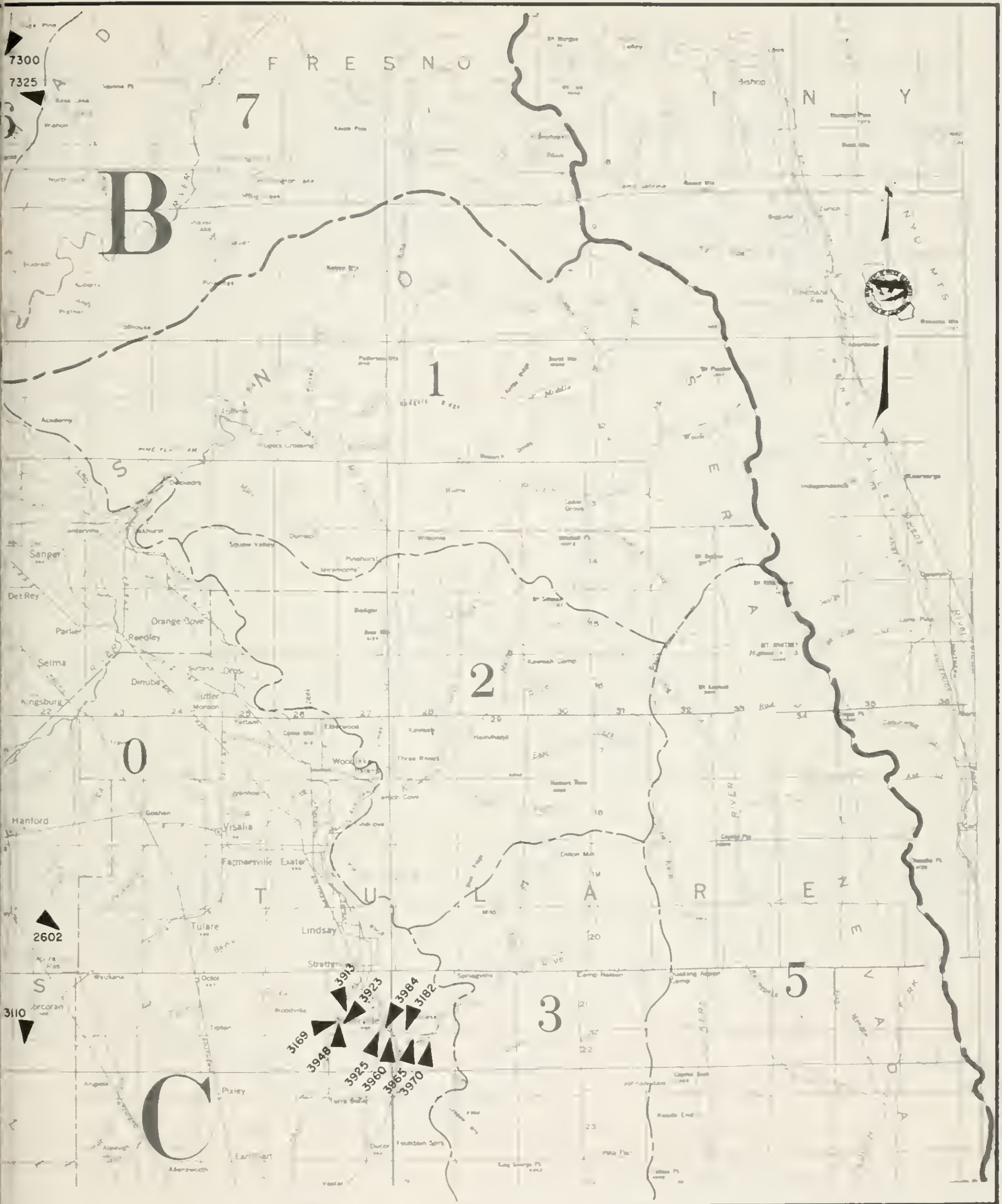
NOTE
Index to Surface Water Measurement Stations located on page 27.

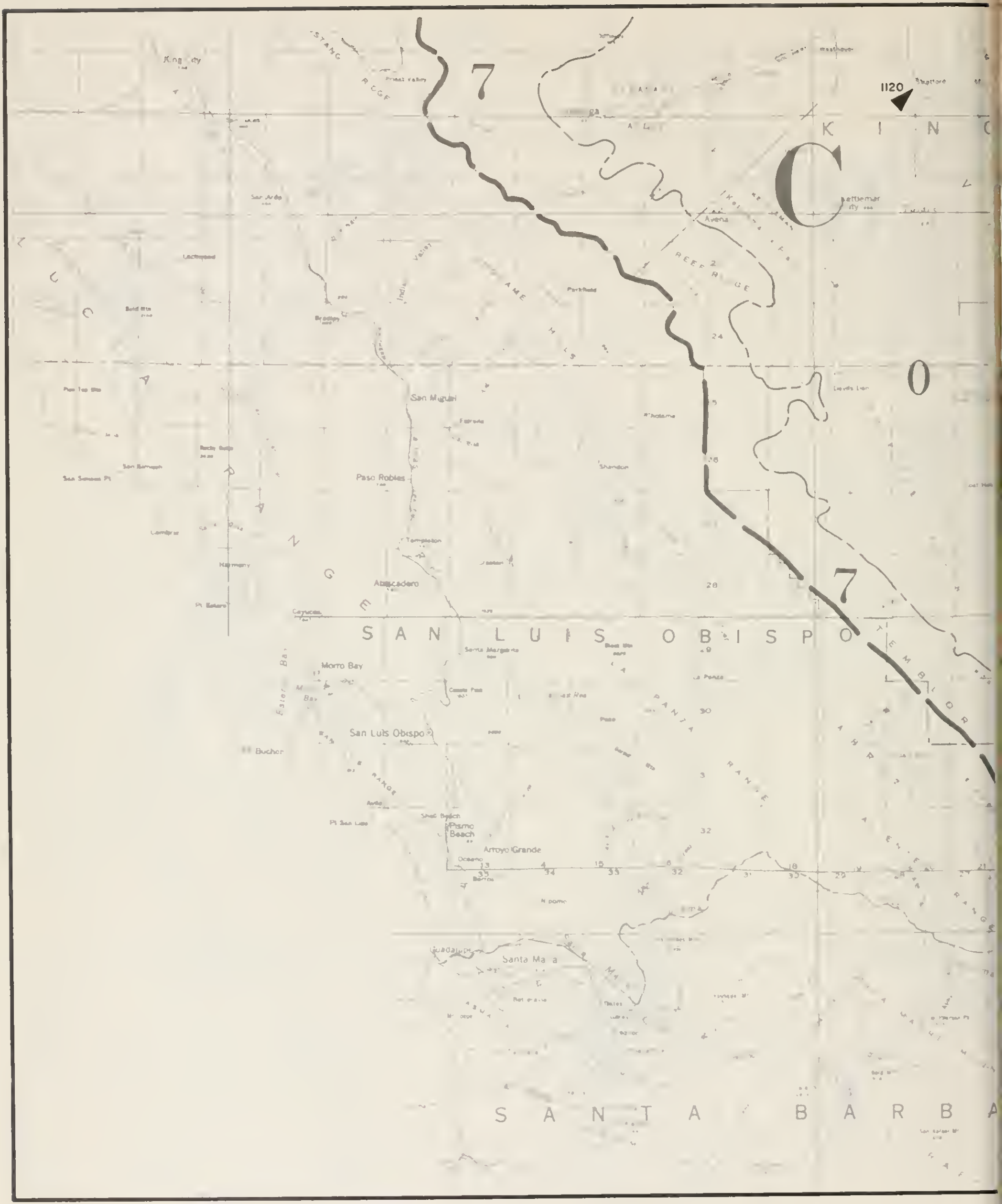
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1971

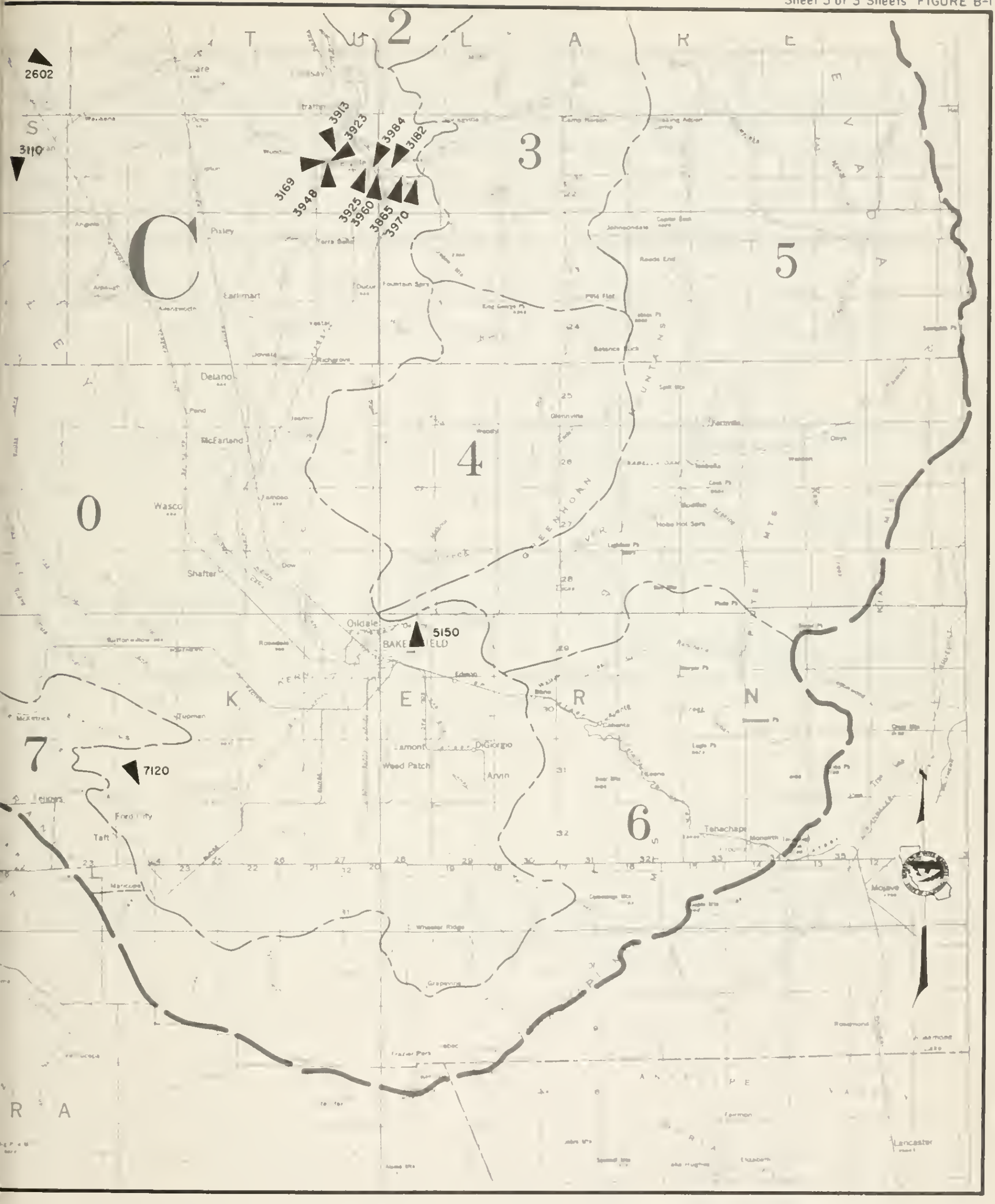
LOCATION OF SURFACE WATER MEASUREMENT STATIONS


7250
5155
8720
7300
7400
7375
0470
5518
6100
5570
5525
6170
2400
4300
2100
4200
0435
7610
6725
0975
7710
0770
0200
1120
B
C
6
0
8
7
MERCED
MADERA
SAN BENITO
FRE
KIN
Los Banos
Dos Palos
Madera
PANOCHE HILLS
Hollister
Soledad
Greenfield
King City
Coalinga
PLEASANT VALLEY
MUSTANG RIDGE
Avenal
Merced


7300
7325
FRESNO
INYO
7
B
1
2
0
TULARE
5
3
C
2602
3110
3913
3923
3984
3182
3169
3948
3925
3960
3965
3970
Bishop
Independence
Sanger
Del Rey
Parlier
Reedley
Orange Cove
Selma
Dinuba
Kingsburg
Squaw Valley
Elderwood
Woodlake
Three Rivers
Hanford
Visalia
Farmersville
Exeter
Tulare
Lindsay
Strathmore
Corcoran
Pixley
Earlimart
Springville
Ducor
Camp Nelson
Goshen
Ivanhoe
Tipton
Terra Bella


King City
Priest Valley
7
1120
Stratford
K I N G
C
Kettleman City
Avena
San Ardo
Lockwood
Bradley
Parkfield
REEF RIDGE
24
O
Devils Den
San Miguel
Cholame
Paso Robles
Shandon
San Simeon Pt
Cambria
Harmony
Templeton
Atascadero
7
28
Pt Estero
Cayucos
S A N L U I S O B I S P O
Santa Margarita
La Panza
Morro Bay
30
San Luis Obispo
Pt Buchon
TEMBLOR
Shell Beach
Pismo Beach
Arroyo Grande
Oceano
Pt San Luis
32
Nipomo
Guadalupe
Santa Maria
S A N T A B A R B A

Sheet 3 of 3 Sheets FIGURE B-1



UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

Table B-1 presents annual unimpaired runoff in percent of average for major streams.

Table B-2 presents monthly unimpaired runoff in percent of average for major streams.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

TABLE 8-1

ANNUAL UNIMPAIRED RUNOFF

In percent of average

Water Year	Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
Average Annual Runoff (a)	1085	1789	920	1659	5452	1568	404	133	629
1930-31	29	34	29	29	30	30	28	19	29
1931-32	125	118	121	123	121	133	129	104	111
1932-33	56	63	56	67	62	75	70	60	68
1933-34	39	45	39	42	42	42	32	15	37
1934-35	112	118	127	116	118	103	89	67	72
1935-36	122	121	125	112	119	120	121	128	119
1936-37	102	112	132	133	120	149	168	230	176
1937-38	188	192	226	222	206	209	216	267	205
1938-39	48	55	52	56	53	62	61	62	72
1939-40	129	124	119	113	121	114	127	158	111
1940-41	123	140	158	160	146	162	159	177	198
1941-42	137	133	140	136	136	128	122	102	119
1942-43	144	133	140	124	134	129	166	274	159
1943-44	62	73	74	76	72	75	78	77	92
1944-45	118	117	119	129	121	132	136	153	128
1945-46	109	105	102	104	105	103	88	71	103
1946-47	58	62	61	68	63	71	66	39	68
1947-48	83	79	75	73	77	64	65	48	53
1948-49	69	70	69	70	70	61	54	37	47
1949-50	99	87	78	79	85	82	75	47	69
1950-51	156	139	133	112	133	102	104	116	84
1951-52	177	167	170	171	171	182	204	241	221
1952-53	89	86	68	74	80	74	76	74	86
1953-54	82	81	73	79	79	83	76	67	80
1954-55	63	64	58	70	64	71	68	49	56
1955-56	174	177	182	178	178	162	180	157	139
1956-57	82	80	70	80	79	79	73	49	69
1957-58	155	148	153	159	153	157	159	168	167
1958-59	54	56	50	57	55	52	38	24	43
1959-60	55	59	52	50	54	45	45	36	44
1960-61	37	41	34	39	39	36	29	15	28
1961-62	92	99	101	116	103	118	98	65	104
1962-63	117	115	107	117	115	119	124	89	117
1963-64	60	64	49	56	58	54	57	45	50
1964-65	164	154	145	137	149	123	121	102	109
1965-66	65	73	73	78	73	77	61	35	64
1966-67	178	174	187	195	182	207	254	281	251
1967-68	59	57	46	52	54	51	54	48	73
1968-69	203	207	240	244	223	271	314	375	351
1969-70	122	108	95	87	102	82	88	91	94
1970-71 (c)	98	92	79	85	89	74	73	62	66

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary values and subject to revision.

TABLE 8-2

MONTHLY UNIMPAIRED RUNOFF

In percent of average (a)

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	176	56	66	59	81	61	68	77	85
	Average	8	14	6	16	45	16	4	1	14
November	Percent	158	179	101	126	148	103	101	133	108
	Average	24	45	20	30	119	28	8	4	17
December	Percent	141	142	109	117	129	107	69	73	93
	Average	52	92	46	62	253	54	21	11	28
January	Percent	116	103	88	108	105	102	89	84	108
	Average	67	108	56	69	300	59	22	14	28
February	Percent	86	69	49	75	70	70	61	50	87
	Average	85	140	80	95	400	80	30	19	32
March	Percent	97	86	64	86	84	75	72	43	77
	Average	112	168	90	128	500	106	38	24	49
April	Percent	90	68	64	73	73	71	63	45	57
	Average	196	282	148	236	863	214	64	24	86
May	Percent	79	54	76	68	67	64	64	68	43
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	114	146	108	99	118	81	89	82	63
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	109	99	85	89	95	64	80	92	64
	Average	52	113	48	158	370	150	26	3	63
August	Percent	83	67	39	103	85	70	79	98	70
	Average	13	20	10	46	89	44	7	1	26
September	Percent	29	52	19	119	78	86	65	29	71
	Average	6	8	4	18	36	17	3	0	15
1970-71 Water Year	Percent	98	92	79	85	89	74	73	62	66
	Average	1085	1789	920	1659	5452	1568	404	133	629

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

DAILY MEAN DISCHARGE

The streamflow data shown in Table B-3 are arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-3

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55	32	32	33	62	42	39	54	47	102	136	85	1
2	57	33	30	38	66	41	41	54	49	102	129	95	2
3	58	32	32	38	62	41	34	62	49	102	127	88	3
4	60	32	30	34	60	41	38	52	50	102	125	80	4
5	62	32	30	33	58	41	36	44	50	102	125	80	5
6	62	33	30	34	57	41	38	24	52	100	123	80	6
7	65	33	28	34	57	39	38	27	47	100	123	80	7
8	65	32	32	34	57	41	39	42	46	102	121	78	8
9	65	32	32	34	57	41	38	49	44	104	119	80	9
10	65	32	30	36	55	42	46	44	44	102	117	80	10
11	66	33	28	34	52	42	55	41	47	102	123	80	11
12	66	33	28	36	47	44	55	46	46	100 *	123	80	12
13	66	41	28	42	41	60	55	42	44	100	123	87	13
14	66	62	27	46	41	50	55	41	54	99	123	95	14
15	68	62	27	36	41	47	55	39	83	97	121	99	15
16	68	62	30	34	39	47	55	41	104	104	121	110	16
17	68	65	33	34	41	46	57	41	117	117	117	121	17
18	66	75	30	34	41	47	58	42	165	117	113	121	18
19	68	76	28	34	39	47	50	44	185	119	104	121	19
20	68	80	28	34	39	47	28	42	200	125	102	121	20
21	70	87	44	34	38	46	28	42	212	134	92	121	21
22	63	88	49	34	38	44	28	44	212	132	82	117	22
23	57	88	38	34	39	47	28	42	195	136	80	113	23
24	57	90	36	34	39	47	30	42	192	144	78	113	24
25	57	85	33	34	41	49	30	42	192	147	78	113	25
26	55	71	33	34	39 *	48	34	42	190	151	78	113	26
27	58	58	34	36	39	46	42	47	168	151	78	108	27
28	52	52	42	41	42	42	47	47 *	147	147	80	102	28
29	32 *	36	39	47 *		38	55	47	117 *	138	78	97	29
30	32	32 *	33	50		35 *	65 *	47	102	138 *	80	92 *	30
31	32		33 *	57		36		47		136	80 *		31
MEAN	59.6	53.3	32.5	37.0	47.4	44.0	43.2	43.9	108	118	106	98.3	MEAN
MAX.	70	90	49	57	66	60	65	62	212	151	136	121	MAX.
MIN.	32	32	27	33	38	35	28	24	44	97	78	78	MIN.
AC. FT.	3670	3170	2000	2280	2630	2710	2570	2700	6450	7240	6540	5850	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
66.0	270	3.07	6	22	1630	24	1.80	5	6	DAILY MEAN	47810

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C00200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15						NO FLOW							15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
36 39 06	120 10 45	SW 1 15S 16E				MAY 27-DATE					

Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period 1953 through 1968 are available from their office in Sacramento. Record since 1969 has been published in the Bulletin No. 130 series of reports.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	895925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2593	1147	0	0	0	3963	4458	3403	3722	4607	4494	4028	1
2	2565	1156	0	0	64	3932	4732	3254	3848	4590	4530	3421	2
3	2576	1069	0	0	0	3938	4736	2935	3865	4654	4522	2984	3
4	2672	930	0	0	0	3938	4715	3041	3770	4626	4526	2973	4
5	2667	941	0	0	0	3942	4729	3008	3843	4705	4543	2988	5
6	2937	945	0	0	0	3950	4557	3923	3889	4635	4530	2992	6
7	2802	941	0	0	0	3927	3995	3875	4004	4594	4526	2843	7
8	2747	941	0	0	589	3942	3825	3801	4548	4565	4507	2600	8
9	2594	941	0	0	1980	3496	3658	3264	4615	4459	4485	2626	9
10	2426	1044	0	0	2111	3489	3265	3028	4658	4482	4472	2605	10
11	2452	1036	0	0	2270	3481	3257	3117	4650	4499	4481	2621	11
12	2438	1140	0	0	2196	3547	3100	3160	4644	4538	4486	2516	12
13	2150	713	0	0	2520	3766	2915	3179	4586	4585	4490	2562	13
14	2222	668	69	0	2546	4614	2881	3146	4522	4520	4497	2604	14
15	2126	317	35	0	2544	3672	2630	3207	4556	4552	4489	2580	15
16	2149	0	0	0	2676	3476	2636	3263	4619	4573	4493	2764	16
17	2064	69	0	0	3050	3584	2378	3320	4618	4578	4497	2755	17
18	2053	105	0	0	3087	3509	2301	3348	4626	4571	4495	2761	18
19	1642	0	0	0	3519	3527	2323	3945	4650	4552	4491	2758	19
20	1450	0	0	0	3971	3512	2331	4172	4629	4518	4370	2754	20
21	1424	0	0	0	3972	3965	2322	4193	4656	4591	4365	2758	21
22	1607	0	0	0	3956	3509	2492	4189	4650	4599	4284	2737	22
23	1604	0	67	0	3994	3462	2566	4179	4648	4593	4162	2743	23
24	1595	0	0	0	3931	3518	2782	4342	4597	4582	4090	2736	24
25	1600 a	0	0	0	3896	3623	2864 b	4454	4637	4556	4099	2669	25
26	1503	0	0	0	3972	3847	3335	4189	4628	4566	4105	2668	26
27	1404	0	0	0	3936	3874	3559	4064	4599	4559	4106	2661	27
28	1339	0	0	0	3948	4465	3745	3831	4618	4503	4072	2671	28
29	1326	0	0	0		3797	3783	3670	4529	4518	4109	2571	29
30	1348	0	68	660		4342	3289	3666	4752	4477	4120	2441	30
31	1346		0	72		4335		3729		4510	4096		31
MEAN	2048	470	7.7	23.6	2312	3805	3335	3610	4439	4563	4372	2780	MEAN
MAX.	2937	1156	69	660	3994	4614	4736	4454	4752	4705	4543	4028	MAX.
MIN.	1326	0	0	0	0	3462	2301	2935	3722	4459	4072	2441	MIN.
AC. FT.	125928	27973	474	1452	128388	233938	198429	221944	264155	280580	268828	165404	AC. FT.

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# – E AND *
a – 25-HOUR DAY
b – 23-HOUR DAY

MEAN												TOTAL
	MAXIMUM					MINIMUM						
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME		ACRE FEET
2649						0						1917493

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 47 45	121 35 05	SW 31 1S 4E				JUN 51-DATE		1951		0.00	USGS

Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	800770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1614	590	151	0	358	1378	1366	2164	1897	2733	2925	1994	1
2	1605	553	107	0	361	1433	1488	2197	1862	2666	2936	1908	2
3	1634	453	14	0	381	1483	1566	2209	1944	2608	2867	1909	3
4	1710	368	0	0	461	1498	1698	1999	1925	2608	2804	1871	4
5	1685	380	0	0	669	1615	1730	1931	1967	2607	2819	1871	5
6	1712	315	0	0	671	1649	1806	1974	2050	2618	2834	1871	6
7	1651	316	0	0	600	1649	1786	2116	2112	2636	2834	1848	7
8	1601	316	0	0	597	1654	1627	1982	2308	2579	2835	1738	8
9	1537	366	0	0	662	1710	1478	1567	2350	2680	2905	1694	9
10	1409	408	0	0	708	1758	1478	1578	2460	2690	2691	1741	10
11	1270	435	0	0	705	1776	1525	1596	2667	2690	2644	1741	11
12	1311	521	0	0	721	1755	1550	1694	2737	2736	2626	1741	12
13	1168	504	0	0	722	1727	1300	1723	2738	2715	2654	1715	13
14	1033	468	0	0	721	1726	1191	1757	2743	2769	2655	1702	14
15	1002	467	0	0	722	1605	1179	1686	2685	2769	2655	1698	15
16	989	417	0	0	807	1460	1206	1730	2631	2822	2676	1703	16
17	989	410	0	0	1150	1334	1067	1766	2672	2822	2635	1722	17
18	989	371	0	0	1291	1318	1032	1930	2677	2823	2676	1797	18
19	894	366	0	490	1385	1310	989	2043	2678	2913	2803	1797	19
20	767	373	0	555	1534	1309	944	2156	2677	2842	2823	1803	20
21	660	373	0	215	1535	1309	979	2202	2805	2709	2745	1799	21
22	643	373	0	115	1525	1394	1134	2220	2783	2735	2745	1784	22
23	657	381	0	80	1426	1512	1188	2222	2814	2661	2728	1933	23
24	657 a	382	0	80	1362	1531	1389 b	2263	3024	2681	2463	1744	24
25	657	384	0	115	1306	1474	1449	2268	2882	2707	2320	1745	25
26	641	324	0	212	1295	1292	1597	2097	2880	2759	2350	1745	26
27	596	215	0	315	1295	1114	1833	1999	2805	2814	2394	1730	27
28	598	195	0	350	1295	1113	2114	1880	2870	2818	2323	1617	28
29	609	194	0	350		1127	2094	1792	2760	2716	2323	1585	29
30	569	192	0	350		1203	2078	1792	2743	2780	2158	1503	30
31	569		0	350		1235		1823		2816	2050		31
MEAN	1079	380	8.8	115	938	1466	1460	1947	2538	2727	2642	1768	MEAN
MAX.	1712	590	151	555	1535	1776	2114	2268	3024	2913	2936	1994	MAX.
MIN.	569	192	0	0	358	1113	944	1567	1862	2579	2050	1503	MIN.
AC. FT.	66354	22632	540	7095	52097	90152	86883	119716	151036	167649	162441	105223	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *
a - 25-HOUR DAY
b - 23-HOUR DAY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1425						0					1031818

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 47 11	120 23 05	NW 19 13S 15E				JUL 51-DATE					

Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	230	168	170	5	12	200	184	319	Recorder out of order -- record of flow from San Luis Canal Company deliveries.	481	488	381	1
2	226	170	169	7	11	227	186	324		481	490	387	2
3	222	172	169	6	11	227	182	328		478	495	381	3
4	218	171	169	4	11	222	202	332		476	498	365	4
5	213	170	169	4	11	216	218	334		476	500	345	5
6	210	175	168	4	12	215	215	334		476	505	348	6
7	205	176	168	4	13	215	220	334		478	507	348	7
8	201	176	168	4	13	227	226	310		498	507	350	8
9	196	178	167	3	14	242	228	286		514	512	356	9
10	193	180	167	2	14	248	230	286		522	514	359	10
11	188	179	166	2	13	280	234	298		522	517	361	11
12	184	175	165	2	13	306	246	308		517	522	361	12
13	180	169	165	2	13	280	254	300		507	524	359	13
14	177	169	166	2	13	268	236	320		493	526	352	14
15	176	169	216	2	12	274	212	330		478	531	356	15
16	176	169	233	2	30	282	212	330		481	534	363	16
17	175	169	187	2	50	286	214	330		488	536	359	17
18	175	169	165	2	64	282	215	322		493	502	352	18
19	175	169	163	11	83	270	216	322		490	502	354	19
20	174	169	153	13	88	262	215	332		483	500	354	20
21	173	171	146	15	88	258	214	334		478	500	345	21
22	173	173	142	16	94	260	218	337		481	500	334	22
23	172	173	138	16	110	262	222	341		478	438	330	23
24	172	173	136	16	118	260	230	345		481	427	324	24
25	171	173	133	15	122	250	250	363		486	440	324	25
26	170	172	130	15	122	216	258	381		476	392	324	26
27	170	172	128	15	119	209	278	378		466	378	330	27
28	170	172	127	14	118	194	310	356		476	378	348	28
29	169	170	126	13		182	314	354		488	381	345	29
30	169	170	124	12		184	306	354		483	385	322	30
31	168		124	12		184		354		483	378		31
MEAN	186	172	159	7.8	49.7	242	232	331	429E	487	478	351	MEAN
MAX.	230	180	233	16	122	306	314	381	NR	522	536	387	MAX.
MIN.	168	168	124	2	11	182	184	286	NR	466	378	322	MIN.
AC. FT.	11450	10240	9750	480	2760	14850	13780	20380	25510E	29970	29370	20860	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
262	538	4.26	8	17	2350	2	1.48	1	10	1200	189400

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 48 37	120 22 35	SW 7 13S 15E	11740a	13.75	6-20-41			1939	1953	142.53	USBR
			8840		6- 1-52	OCT 39-DATE		1954		140.53	USBR

Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0			12	8	0	0	12	12	9	1
2			0			12	12	0	0	12	12	12	2
3			0			12	3	0	0	12	12	12	3
4			0			7	0	0	0	12	12	12	4
5			0			9	0	0	0	12	12	12	5
6			0			5	0	0	0	12	12	12	6
7			0			0	0	0	9	8	12	4	7
8			0			9	0	0	12	9	12	9	8
9			0			12	0	0	12	12	12	12	9
10			0			12	9	0	12	12	12	12	10
11			0			12	7	0	12	12	12	10	11
12	N	N	0	N	N	12	0	0	12	12	12	0	12
13	O	O	0	O	O	12	0	0	3	12	7	0	13
14			0			3	0	0	0	12	9	0	14
15			4			0	0	0	8	12	4	0	15
16	F	F	122	F	F	0	0	0	12	12	9	0	16
17	L	L	154	L	L	0	0	0	12	12	12	0	17
18	O	O	48	O	O	0	0	0	12	12	12	0	18
19	W	W	0	W	W	0	0	0	12	12	12	0	19
20			0			0	0	9	12	12	12	0	20
21			0			5	8	12	12	12	12	0	21
22			0			12	7	3	8	12	12	0	22
23			0			7	9	0	9	12	12	0	23
24			0			0	5	0	12	12	12	0	24
25			0			0	0	9	8	7	12	0	25
26			0			0	7	12	9	9	12	0	26
27			0			0	12	12	8	12	12	0	27
28			0			0	7	12	0	12	8	0	28
29			0			0	0	3	9	12	0	0	29
30			0			0	0	0	12	12	9	0	30
31			0			0		0		12	8		31
MEAN			10.6			4.9	3.1	2.3	7.6	11.5	10.6	3.9	MEAN
MAX.			154			12	12	12	12	12	12	12	MAX.
MIN			0			0	0	0	0	7	0	0	MIN.
AC. FT.			650			303	186	143	450	710	650	230	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
4.6	178	2.63	12	17	0100	0		10	1	0000	3322

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
36 59 38	120 30 02	N½12 11S 13E	8920a	10.52b	6-24-41				1944		
			8200		6- 5-52	OCT 40-DATE		1945		116.5	USED

Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.

a Maximum discharge of record prior to the construction of Friant Dam in 1944.
b Gage height at site and datum then in use.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	867325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.1	15	49	34	53	45	93	95	94	34	6.8	4.6*	1
2	5.1	13	122 *	35	52	42 *	93	96	97 *	33	5.8	4.3	2
3	5.1	13	43	25	48	45	94	105	92	32	5.7*	4.4	3
4	5.7	16	40	31	45	45	98	101	88	29	5.0	4.2	4
5	6.4	41	37	31	43 *	41	98	97	89	27	5.0	4.1	5
6	5.6*	30 *	33	32	43	40	97 *	102	90	26	5.1	4.6	6
7	9.2E	24	37	32	42	42	98	118	95	24 *	4.8	5.1	7
8	9.2E	18	51	31	42	43	96	117	95	24	5.3	4.3	8
9	9.2E	16	63	31	43	44	97	105	97 #	26	4.4	4.1	9
10	9.2E	15	40	32	44	45	98	105	97 E	27	3.9	3.8	10
11	9.2E	14	33	33	51	46	100	111	97 E	25	3.7	3.7	11
12	9.2E	19	31	40 *	56	64	100	124	95 E	25	3.1	3.8	12
13	9.2E	16	30	34	58	80	101	122	95 E	24	3.0	3.9	13
14	9.2E	14	28	38	59	60	100	127	95 E	23	2.9	3.9	14
15	9.2E	14	27	41	60	58	108	127	95 E	18	3.0	3.9	15
16	9.2E	13	40	40	61	61	112	125	95 E	17	4.0	3.7	16
17	6.6	12	35	49	61	60	118	122	93 #	19	4.3	4.4	17
18	6.8	13	31	60	56	63	111	120	91 E	19	5.1	4.8	18
19	7.6	13	34	73	58	66	108	119	86 E	18	4.7	4.3	19
20	10	13	31	81	45	68	99	121	82 E	18	3.9	4.3	20
21	14	12	40	72	45	74	75	122	78 E	17	3.6	3.5	31
22	14	12	36 *	60	47	79	69	116	74 E	17	4.0	3.5	22
23	15	11	30	53	43	84	67	111	70 E	16	4.7	3.5	23
24	15	11	27	49	44	81	66	106 *	66 E	16	5.0	3.6	24
25	14	59	30	46	44	98	65	101	62 #	17	5.5	4.2	25
26	14	122	31	47	41	178	64	102	57	16	5.4	5.5	26
27	14	50	44	49	37	142	62	111	47	15	7.5	5.0	27
28	14	49	38	52	41	108	64	115 *	41	15	5.1	4.9	28
29	14	125	35	53		103	64	99	38	15	4.5	4.9	29
30	12	57	34	54		99	75	97	36	14	4.5	7.3	20
31	12		35	55		96		94		13	4.6		31
MEAN	9.9E	28.3	39.2	44.9	48.6	71.0	89.7	111	80.9E	21.3	4.6	4.3	MEAN
MAX.	15	125	122	81	61	178	118	127	97 E	34	7.5	7.3	MAX.
MIN.	5.1	11	27	25	37	40	62	94	36	13	2.9	3.5	MIN.
AC. FT.	611E	1686	2410	2763	2701	4364	5336	6809	4814E	1307	285	258	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
46.1	279	2.11	3	26	1945	2.5	0.89	8	12	1530	33340

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE		1961	·	0.00	LOCAL

Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet, from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.8	1.4	12	6.5	10	8.4	15	8.1	6.2	3.1	1.3	0.9*	1
2	0.7	1.3	29	6.5	9.6	8.5*	14	8.0	6.0*	3.0	1.3	0.9	2
3	0.7	1.3	9.6	5.7	8.9	7.8	14	9.7	5.8	2.9	1.3*	1.0	3
4	0.8	1.6	7.9	5.7	8.4	7.9	14	10	5.6	2.8	1.1	1.0	4
5	0.8	7.4	7.3	5.5	8.2*	7.6	14	9.0	5.4	2.8	1.1	0.9	5
6	0.8*	5.1	6.7	5.0	8.0	7.5	13 *	9.3	5.2	2.7	1.1	1.1	6
7	0.9	5.3	7.1	5.3	7.9	7.4	13	11	5.0	2.6*	1.1	1.5*	7
8	0.9	2.9	9.9*	5.4*	7.9	7.6	12	12	4.8	2.5	1.1	1.2	8
9	0.9	2.3*	16	5.2	8.0	7.8	12	9.5	4.7	2.5	1.1	1.0	9
10	0.9	2.1	9.5	5.2	8.3	8.2	12	9.1	4.7	2.4	1.1	0.9	10
11	0.9	2.0	7.3	5.3	9.2	8.4	11	8.9*	5.0	2.4	1.1	0.9	11
12	0.9	2.5	6.3	6.7	10	11	11	11	4.8	2.4	1.1	0.8	12
13	0.9	2.3	5.7	5.2	11	17	11	9.0	4.6	2.3	1.1	0.7	13
14	0.9	2.0	5.3	6.4	11	12	11	8.4	4.4	2.1	1.0	0.7	14
15	0.9	1.9	5.1	6.3	11	11	10	8.0	4.3	2.1	1.0	0.7	15
16	1.0	1.8	6.8	6.3	12	11	10	7.3	4.1	2.0	1.0	0.7	16
17	0.9	1.7	6.4	8.7	11	11	12	6.9	3.8	2.2	0.9	0.7	17
18	1.0	1.7	5.7	13	10	11	11	6.7	3.6	2.4	0.9	0.7	18
19	1.0	1.8	5.9	16	11	11	10	6.5	3.5	2.1	0.9	0.8	19
20	1.2	1.8	5.5	17	11	11	10	6.3	3.4	1.9	0.9	0.8	20
21	1.5	1.7	5.9	14	11	12	9.7	6.2	3.4	1.9	0.9	0.7	21
22	1.5	1.7	5.7	11	9.7	12	9.1	6.4	3.3	1.8	0.9	0.7	22
23	1.5	1.7	5.2	10	8.5	13	8.8	6.1	3.3	1.7	1.0	0.7	23
24	1.6	1.8	5.1	9.7	8.5	12	8.5	5.8	3.1	1.7	1.0	0.7	24
25	1.6	11	5.2	9.0	8.5	14	8.5	5.6	3.1	1.6	1.0	0.8	25
26	1.4	21	5.2	8.9	8.1	39	8.3	5.6	3.1	1.2	0.9	1.0	26
27	1.4	6.4	8.0	9.5	7.8	36	8.0	7.3	3.5	1.1	0.9	1.0	27
28	1.5	6.2	7.1	9.9	8.2	22	7.9	8.8	3.5	1.1	0.9	1.0	28
29	1.4	21	6.5	10		19	8.1	7.8	3.3	1.3	0.9	1.0	29
30	1.4	12	6.3	10		18	8.1	7.1	3.2	1.4	0.9	1.5	30
31	1.4		6.3	10		16		6.6		1.4	0.9		31
MEAN	1.1	4.5	7.8	8.4	9.4	13.1	10.8	8.0	4.3	2.1	1.0	0.9	MEAN
MAX.	1.6	21	29	17	12	39	15	12	6.2	3.1	1.3	1.5	MAX.
MIN.	0.7	1.3	5.1	5.0	7.8	7.4	7.9	5.6	3.1	1.1	0.9	0.7	MIN
AC. FT.	67	267	479	514	521	805	645	492	253	130	63	54	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
5.9	79	4.24	3	26	1945	0.6	2.46	9	15	1630	4290

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE		1959		0.00	LOCAL

Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B67285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.1	17	14	15	14	20	7.6	9.3	2.9		*	1
2	0.0	1.1	52 *	15	15	13 *	19	8.3	9.0*	3.3			2
3	0.0	1.1	19	12	13	13	18	13	13	2.1	*		3
4	0.0	1.7	10	11	13	13	18	14	10	1.9			4
5	0.0	2.4	8.2	9.9	12 *	12	18	12	9.4	1.6			5
6	0.0 *	5.3*	6.4	10	12	11	17 *	12	5.3	1.5			6
7	0.0	3.9	6.1	10	12	11	17	16 *	5.1	1.6*			7
8	0.3	3.0	9.9	9.9	12	11	16	23	3.2	1.4			8
9	0.3	2.4	26	9.2	12	11	15	17	3.9*	1.5			9
10	0.2	2.2	15	8.9	12	11	15	15	5.9	0.8			10
11	0.2	2.2	11	9.6	13	12	15	16	8.2	2.2			11
12	0.2	2.5	8.4	17 *	14	15	14	17	9.5	1.8	N	N	12
13	0.1	2.7	6.6	20	14	31	14	16	6.2	1.5	O	O	13
14	0.2	2.4	5.6	16	14	21	14	19	4.5	1.2			14
15	0.4 *	2.3	5.2	16	15	19	13	21	3.7	0.9			15
16	0.3	2.4	17	15	15	17	13	19	3.0	0.9	F	F	16
17	0.5	2.4	20	19	17	17	17	15	3.0*	1.2	L *	L *	17
18	0.3	2.4	13	26	16	16	16	15	3.9	3.9	O	O	18
19	0.2	2.3	14	31	16	16	14	17	4.1	4.9	W	W	19
20	0.2	2.4	13	32	14	16	14	28	4.2	5.4			20
21	0.2	2.5	27	26	13	16	14	37	5.3	3.1			21
22	0.3	2.5	21 *	20	13	16	12	40	3.3	1.7			22
23	0.8	2.5	15	18	12	17	9.1	41	2.3	1.1			23
24	1.3	2.7	13	16	12	16	8.4	38	1.0	0.3			24
25	1.2	6.7	12	15	12	18	8.8	31	1.6*	0.7			25
26	1.1	29	12	15	11	38	9.0	27	5.0	0.8			26
27	1.0	14	22	15	12	61	8.2	26	5.4	8.0			27
28	1.1	10	23	16	13	31	8.1	18 *	4.7	4.7			28
29	1.1	34	17	16		26	7.8	5.9	3.9	5.2			29
30	1.1	24 *	15	16		24	7.9	1.7	2.6	2.3			30
31	1.1		14	16		22		2.5		0.4			31
MEAN	0.4	5.9	15.3	16.2	13.4	18.9	13.7	19.0	5.3	2.3			MEAN
MAX.	1.3	34	52	32	17	61	20	41	13	8.0			MAX.
MIN.	0.0	1.1	5.2	8.9	11	11	7.8	1.7	1.0	0.3			MIN.
AC. FT.	27	349	941	993	742	1160	814	1168	316	140			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
9.2	100	2.69	3	26	2400	0.0		10	1	0000	6651

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 20 50	119 43 00	SW 6 7S 21E	913E	8.24	1-16-70	OCT 69-DATE		1969		0.00	LOCAL

Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	55.8	57.6	0		0					1
2			27.5	55.8	55.8	0		0					2
3			105	54	48.6	0		0					3
4			95	54	41.8	0		0					4
5			40	45	29	0		0					5
6			28	40.2	28.5	0		0					6
7			25	35.4	28.5	0		0					7
8			25	30.6	28.5	0		0					8
9			35	30.6	17	0		0					9
10			40	29	17	0		0					10
11			28	29	16	0		0					11
12	N	N	22.6	30.6	15.5	0	N	0	N	N	N	N	12
13	O	O	19.1	59.4	20.5	0	O	3.5	O	O	O	O	13
14			21.9	131	24	45		14.5					14
15			20.5	129	21.9	17.7		3.5					15
16	F	F	22.6	98.8	22.6	0	F	0	F	F	F	F	16
17	L	L	27.5	88.5	21.9	0	L	0	L	L	L	L	17
18	O	O	75	85.1	3	0	O	0	O	O	O	O	18
19	W	W	74	102.4	5	0	W	0	W	W	W	W	19
20			50	104.2	7.8	0		0					20
21			62	109.6	0	0		0					21
22			157	106	0	0		0					22
22			130	73.2	0	0		0					23
24			95	68.1	0	0		0					24
25			67	55.8	0	0		0					25
26			55	57.6	0	0		0					26
27			48	57.6	0	0		0					27
28			60	57.6	0	20.5		0					28
29			90	57.6		28.5		0					29
30			73	57.6		15.5		0					30
31			60.4	57.6		12		0					31
MEAN			54.2	66	18.2	4.5		0.7					MEAN
MAX.			157	131	57.6	45		14.5					MAX.
MIN.			0	29	0	0		0					MIN.
AC. FT.			3330	4060	1013	276		43					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
12.0	185	2.22	12	22	0800	0		10	1	0000	8721

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
36 58 30	120 12 12	NE 15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE		1936		0.00	LOCAL

Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	15	11	10	10	8.3*	3.7	3.3*	0.2			1
2		0.1	105	13	9.7	8.6	7.7	4.2	3.1	0.2	*		2
3		0.1	24	8.5	9.1	7.9	7.0	13	3.0	0.1		*	3
4		0.1*	7.0	7.3	8.8*	8.2*	6.4	13	2.7	0.1			4
5		0.1	4.0	6.6	8.8	7.3	6.0	7.9	2.5	0.0			5
6		0.1	2.8	5.9*	8.8	6.4	5.8	6.8	2.2	0.0*			6
7		0.1	2.3	8.8	8.4	6.2	6.3	13	2.0	0.0			7
8		0.1	3.4	8.6	8.0	6.0	5.9	27	1.9	0.0			8
9		0.1	14	8.4	7.6	5.7	5.7	12	1.7	0.0			9
10		0.1	4.8	7.9	7.5	5.5	5.4	8.5*	1.7	0.0			10
11		0.1	3.1	8.6	7.4	5.5	5.1	7.1	1.7	0.0			11
12	N	0.1	2.4	48	7.1	18	5.1	6.0	1.5	0.0	N	N	12
13	O	0.1	2.0	83	6.9	59	5.0	5.2	1.3	0.0	O	O	13
14		0.1	1.7	51	6.8	19	5.3	5.0	1.1	0.0			14
15	*	0.0	1.4	37	6.7	15	5.3	4.6	1.0	0.0			15
16	F	0.0	13	29	6.7	12	4.6	4.2	0.9*	0.0	F	F	16
17	L	0.0	29	33	8.7	11	8.4	3.9	0.7	0.0	L	L	17
18	O	0.0	16	36	7.3	9.6	8.2	3.7	0.6	0.0	O	O	18
19	W	0.0	21	32	10	8.7	6.1*	3.6	0.6	0.0	W	W	19
20		0.0	13	29	9.8	8.1	5.4	3.3	0.5	0.0			20
21		0.0	83	25	7.2	7.3	5.6	3.2	0.5	0.0			21
22	*	0.0	46	21	7.0	6.7	4.8	3.3	0.4	0.0			22
23		0.0	24 *	18	6.9	6.6	4.4	3.1	0.3	0.0			23
24		0.0	15	16	6.3	6.8	4.3	2.7	0.3	0.0			24
25		1.1	9.9	14	5.9	8.2	4.5	2.4	0.3	0.0			25
26		4.6	19	14	5.5	21	4.6	2.4	0.3	0.0			26
27		2.3	48	13	6.1	28	4.4	4.5	0.3	0.0			27
28		2.7	26	12	9.1	13	4.2	8.1	0.4	0.0			28
29		34	17	12		11	3.9	5.1	0.4	0.0			29
30		25 *	13	11		9.8	3.9	4.2	0.3	0.0			30
31			11	11		8.7		3.6					31
MEAN		2.4	19.3	20.6	7.8	11.8	5.6	6.4	1.3	0.0			MEAN
MAX.		34	105	83	10	59	8.4	27	3.3	0.2			MAX.
MIN.		0.0	1.4	5.9	5.5	5.5	3.9	2.4	0.3	0.0			MIN.
AC. FT.		141	1184	1269	433	724	332	393	74	1			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
6.3	269	4.96	12	2	1015	0.0		10	1	0000	4551

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957		0.00	LOCAL

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	864200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	98	87 E	63 E	48	54 *	26 E	26 #	3.7			1
2		0.0	247	85 E	61 E	46	50 E	25 E	23 E	3.6			2
3		0.0	198	80 E	59 E	43	47 E	28 E	22 E	3.2			3
4		0.0	74	68 E	55 *	44 *	44 E	45 E	20 E	3.0			4
5		0.0	60	63 E	53	43	43 E	45 E	18 E	2.8			5
6	*	0.0*	46 E	60 E	53	40	42 E	40 E	17 E	2.5*			6
7		2.3	40 E	56 E	52	38	41 E	40 E	15 E	2.2		*	7
8		5.1E	50 E	55 E	50	38	40 E	60 E	14	1.8			8
9		5.3#	70 E	55 E	48	38	39 E	70 E	13	1.6			9
10		5.0E	80 E	52 E	47	38 E	37 E	50 #	13	1.4	*		10
11		4.5E	60 E	52 #	47	40 E	36 E	46 E	12	1.2			11
12	N	3.8E	50 E	105	47	50 E	35 E	50 E	11	1.0	N	N	12
13	O	4.3E	38 E	196	46	120	34 E	45 E	10	0.8	O	O	13
14		4.4E	35 E	190	46	95 E	34 E	36 E	9.5	0.6			14
15	*	4.7E	31 E	136 E	46	65	33 E	34 E	9.1	0.3			15
16	F	4.6E	50 E	113	46	58	32 E	31 E	8.9*	0.1	F	F	16
17	L	4.6E	199 E	110 E	48	57 E	38	27 E	8.1	0.0	L	L	17
18	O	4.6E	151	130 E	53	54 E	53 E	25 E	7.0	0.1	O	O	18
19	W	4.6E	110	130 E	55	51 E	46 E	24 E	6.4	0.0	W	W	19
20		4.7E	123	130 E	60	46	42 E	23 E	6.2E	0.0			20
21		4.8E	258	120 E	50	44	39 E	22 E	5.8E	0.0			21
22		4.8E	263	108 E	46	43	37 E	21 E	5.5E	0.0			22
23		4.8E	139 *	96 E	44	41	35 E	20 E	5.0E	0.0			23
24		4.8E	102	87 E	42	42	33 E	19 E	4.0#	0.0			24
25		7.0E	84	80 E	40	41 E	32 E	17 E	3.8	0.0			25
26		38 E	74 E	76 E	38	50 E	32 E	16 E	4.0	0.0			26
27		65 E	90 E	73 E	37	126	32 E	20 E	4.1	0.0			27
28		35 E	160 E	71 E	43	87 E	30 E	35 E	3.8	0.0			28
29	*	50 E	128	70 E		72 E	29 E	40 E	4.5	0.0			29
30		189 #	102	68 E		62 E	28 E	30 E	4.0	0.0			30
31			89	66 E		56 E		25 E		0.0			31
MEAN		15.5E	106 E	92.5E	49.1	55.4E	38.2E	33.4E	10.5E	1.0			MEAN
MAX.		189 E	263	196	63 E	126	54	70 E	26 E	3.7			MAX.
MIN.		0.0	31 E	52 E	37	32	28 E	16 E	3.8	0.0			MIN.
AC. FT.		924E	6543E	5689E	2727	3404E	2275E	2053E	622E	59			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
33.6E	531	572.55	12	2	1900	0.0		10	1	0000	24300E

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 15 36	119 56 42	SE 1 8S 18E	13760	586.44	2-24-69	NOV 59-DATE		1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District as a flood warning station and is equipped with a telemark. Records for some years are insufficient for publication. Drainage area is 201.7 square miles. Estimated days determined by comparison with Chowchilla River at Buchanan damsite. There are no upstream impairments. Operation of this station discontinued by Department of Water Resources on 9-30-71 and will be operated by the U. S. Geological Survey.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0.0	60	15 E								1
2	*	*	0.0	43	10 E							*	2
3			0.0*	30 E	7.0#	*			*				3
4			0.0	18 #	6.0E						*		4
5			0.0	17 E	5.0E		*						5
6			0.0	16 E	4.0E								6
7			0.0	15 E	4.0E								7
8			0.0	14 E	3.0E					*			8
9			0.0	13 E	2.0E								9
10			0.0	12 E	1.0E								10
11			0.0	11 E	0.0								11
12	N	N	0.0	10 E	0.0	N	N	N *	N	N	N	N	12
13	O	O	0.0	9 E	0.0	O	O	O	O	O	O	O	13
14			0.0	B E	0.0								14
15			0.0	7 E	0.0	*			*				15
16	F	F	0.0	50 E	0.0	F	F	F	F	F	F	F *	16
17	L	L *	161	91	0.0	L	L	L	L	L	L	L	17
18	O	O	192	77	0.0	O	O	O	O	O	O *	O	18
19	W	W	121	56	0.0	W	W *	W	W	W	W	W	19
20			77	57 *	0.0					*			20
21	*		35 #	72	0.0								21
22			25 E	63	0.0*								22
23			137	59 E	0.0								23
24			106	54 E	0.0								24
25			72	49 E	0.0			*					25
26			96	44 E	0.0								26
27			78	39 E	0.0								27
28			50 E	35 E	0.0								28
29			30 E	30 E									29
30		*	119	24 E									30
31			91	20 E									31
MEAN			44.8	35.6E	2.0E								MEAN
MAX.			192	91	15 E								MAX.
MIN.			0.0	7 E	0.0								MIN.
AC. FT.			2757	2188E	113E								AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
7.0E	21B	8.84	12	23	1400	0.0		10	1	0000	5058E

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE		1964		90.00	USGS

Station located on left bank 2.8 miles downstream from San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	862400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0.0	41	25	12	10	8.5*	4.8	3.0*	0.1			1
2		0.0	181	26	12	8.5	7.9	4.9	2.7	0.1	*		2
3		0.0	51	22	12	7.7	7.4	6.9	2.5	0.0		*	3
4		0.0	22	19	8.4*	7.6*	6.9	9.1	2.2	0.0			4
5		0.0	16	18	11	7.2	6.6	7.9	1.9	0.0			5
6		0.0	12	17 *	11	6.8	7.0	7.2	1.7	0.0*			6
7		0.0	11	16	10	6.6	6.5	8.6	1.5	0.0			7
8		0.0	13	16	10	6.6	6.1	17	1.3	0.0			8
9		0.0*	41	15	10	6.4	5.8	11	1.2	0.0			9
10		0.0	22	15	9.8	6.3	5.6	8.5*	1.1	0.0			10
11		0.0	16	14	9.6	6.2	5.4	7.2	1.0	0.0			11
12	N	0.0	13	44	9.2	8.9	5.3	6.4	0.9	0.0	N	N	12
13	O	0.0	12	86	9.0	34	5.2	5.7	0.8	0.0	O	O	13
14		0.0	10	74	8.9	16	5.4	5.3	0.7	0.0			14
15	*	0.0	9.5	55	8.9	13	5.6	4.9	0.6	0.0			15
16	F	0.0*	39	41	8.5	11	5.4	4.5	0.5*	0.0	F	F	16
17	L	0.1	98	34	9.4	10	6.2	4.2	0.5	0.0	L	L	17
18	O	3.2	53	29	8.8	9.8	7.3	4.0	0.4	0.0	O	O	18
19	W	3.8	75	26	10	8.1	6.3*	3.7	0.4	0.0	W	W	19
20		3.9	56	24	11	8.2	5.5	3.6	0.3	0.0			20
21		4.0	345	21	9.0	7.7	5.5	3.4	0.3	0.0			21
22		4.2	169	20	8.5	7.4	5.2	3.4	0.3	0.0			22
23		4.3	81 *	19	8.2	7.5	5.2	3.2	0.2	0.0			23
24		4.5	54	18	7.9	7.7	5.1	3.1	0.2	0.0			24
25		10	40	17	7.5	8.2	5.2	2.9	0.2	0.0			25
26		14	34	16	6.8	13	5.3	2.8	0.1	0.0			26
27		8.2	73	15	6.9	19	5.3	3.4	0.1	0.0			27
28		11	62	15	8.8	13	5.2	5.9	0.1	0.0			28
29		80	40	14		11	5.0	4.7	0.1	0.0			29
30		67 *	32	13		10	5.0	3.9	0.1	0.0			30
31			27	13		7.8		3.3		0.0			31
MEAN		7.3	56.4	25.7	9.4	10.0	5.9	5.7	0.9	0.0			MEAN
MAX.		80	345	86	12	34	8.5	17	3.0	0.1			MAX.
MIN.		0.0	9.5	13	6.8	6.2	5.0	2.8	0.1	0.0			MIN.
AC. FT.		433	3468	1581	522	617	353	348	53	0			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
10.2	624	6.39	12	21	0515	0.0		10	01	0000	7375

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL

Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			8.8	24	14	10	12	6.6	3.8				1
2			35	23	14	12	11	6.4	3.6				2
3			119	22	13	12	10	6.2	3.4				3
4			35	20	13	11	10	6.2	3.1				4
5			21	18	13	10	9.6	7.0	2.8				5
6			16	17	13	9.6	9.2	9.2	2.6				6
7			14	16	12	9.6	9.2	9.2	2.4				7
8			12	15	12	8.8	9.2	9.2	2.2				8
9			14	15	12	8.8	9.2	14	2.1				9
10			23	15	12	8.4	8.4	14	2.0				10
11			24	15	11	8.0	8.0	10	2.0				11
12	N	N	18	15	11	8.4	7.8	8.0	1.9	N	N	N	12
13	O	O	16	39	11	14	7.6	7.0	1.8	O	O	O	13
14			14	80	11	27	7.6	8.8	1.7				14
15			12	56	10	19	7.6	5.8	1.6				15
16	F	F	12	41	10	15	7.6	5.2	1.5	F	F	F	16
17	L	L	25	34	10	15	7.8	4.8	1.3	L	L	L	17
18	O	O	82	29	10	14	8.0	4.2	1.2	O	O	O	18
19	W	W	50	25	12	13	8.4	4.0	1.0	W	W	W	19
20			92	22	12	12	9.2	3.3	0.7				20
21			185	21	12	12	9.2	3.1	0.1				21
22			318	20	12	10	8.0	3.0	0				22
23			176	19	11	10	7.6	2.8	0				23
24			76	18	10	10	7.6	2.7	0				24
25			45	17	10	10	7.4	2.7	0				25
26			35	16	9.2	11	7.2	2.5	0				26
27			34	15	9.2	14	7.0	2.6	0				27
28			70	15	8.8	18	7.0	2.7	0				28
29			44	15		15	6.8	2.5	0				29
30			34	15		14	6.6	2.7	0				30
31			28	14		13		3.6					31
MEAN			54.4	23.4	11.4	12.3	8.4	5.8	1.4				MEAN
MAX.			318	80	14	27	12	14	3.8				MAX.
MIN.			8.8	14	8.8	8.0	6.6	2.5	0				MIN.
AC. FT.			3350	1440	631	759	499	357	85				AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
9.8	342		12	22		0		10	1	0000	7120

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63	USCGS

Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B06170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	1.0	2.0	3.0	2.0	2.0	1.0	0.5					1
2	0	1.0	3.0	3.0	2.0	2.0	1.0	0.5					2
3	0	1.0	5.1	3.0	2.0	2.0	1.0	0.5					3
4	0	1.0	2.0	3.0	2.0	2.0	1.0	0.5					4
5	0	1.0	2.0	2.0	2.0	2.0	1.0	0.5					5
6	0	1.0	2.0	2.0	2.0	1.0	1.0	1.0					6
7	0	1.0	2.0	2.0	2.0	1.0	1.0	1.0					7
8	0	1.0	2.0	2.0	2.0	1.0	1.0	2.0					8
9	0	1.0	2.0	2.0	2.0	1.0	1.0	2.0					9
10	0	1.0	2.0	2.0	2.0	1.0	1.0	1.0					10
11	0	1.0	2.0	3.0	2.0	1.0	1.0	1.0					11
12	0	1.0	2.0	4.8	2.0	2.0	0.5	0.5	N	N	N	N	12
13	0	0.5	2.0	6.3	2.0	5.4	0.5	0.5	O	O	O	O	13
14	0	0.5	1.0	5.7	2.0	3.0	1.0	0.5					14
15	0	0.5	1.0	3.6	2.0	2.0	1.0	0.3					15
16	0	0.5	2.0	3.0	2.0	2.0	1.0	0	F	F	F	F	16
17	0	1.0	4.8	3.0	2.0	2.0	1.0	0	L	L	L	L	17
18	0	1.0	3.9	3.0	2.0	2.0	1.0	0	O	O	O	O	18
19	0.3	1.0	4.5	3.0	2.0	1.0	1.0	0	W	W	W	W	19
20	0.5	1.0	4.8	3.0	2.0	1.0	1.0	0					20
21	0.5	1.0	60	3.0	2.0	1.0	0.5	0					21
22	0.5	1.0	28	3.0	2.0	1.0	0.5	0					22
23	0.5	0.5	10	3.0	2.0	1.0	0.5	0					23
24	1.0	1.0	6.6	2.0	2.0	1.0	0.5	0					24
25	0.5	1.0	4.5	2.0	2.0	2.0	0.5	0					25
26	0.5	1.0	3.9	2.0	2.0	2.0	0.5	0					26
27	1.0	1.0	5.1	2.0	2.0	2.0	0.5	0					27
28	1.0	1.0	4.5	2.0	2.0	2.0	0.5	0					28
29	1.0	2.0	3.0	2.0		1.0	0.5	0.3					29
30	1.0	2.0	3.0	2.0		1.0	0.5	0					30
31	1.0		3.0	2.0		1.0		0					31
MEAN	0.3	1.0	5.9	2.B	2.0	1.7	0.B	0.4					MEAN
MAX.	1.0	2.0	60	6.3	2.0	5.4	1.0	2.0					MAX.
MIN.	0	0.5	1.0	2.0	2.0	1.0	0.5	0					MIN.
AC. FT.	18	59	364	173	111	102	48	25					AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
1.2	116		12	21		0		10	1	0000	900

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
37 1B 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950		338.22	USCGS

Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	34	21	7.8	5.0	7.4	2.0	1.8				1
2		0	64	21	7.4	5.4	7.0	2.0	2.0				2
3		0	68	21	7.4	5.4	6.2	2.0	2.3				3
4		0	25	18	7.0	5.4	5.8	2.3	2.3				4
5		0	14	15	6.6	5.4	5.0	2.6	2.0				5
6		0	10	13	6.6	5.0	4.4	2.9	1.7				6
7		0	7.4	13	6.6	5.0	4.4	3.5	1.5				7
8		0	6.2	12	6.2	4.7	4.4	5.0	1.3				8
9		0	7.0	11	6.2	4.7	4.1	7.0	1.3				9
10		0	19	10	6.2	4.4	4.1	6.2	1.2				10
11		0	12	10	6.2	4.4	3.8	5.8	1.2				11
12	N	0	8.6	11	6.2	5.0	3.5	4.7	1.2	N	N	N	12
12	O	0	6.6	28	6.2	16	3.5	4.1	1.1	O	O	O	13
14		0	5.4	66	5.8	30	3.8	3.5	1.1				14
15		0	4.7	41	5.8	19	3.8	2.6	1.1				15
16	F	0	5.0	28	5.8	14	3.5	1.8	1.0	F	F	F	16
17	L	0	93	25	5.8	11	3.8	1.6	0.8	L	L	L	17
18	O	0	88	21	5.8	9.6	3.5	1.7	0.9	O	O	O	18
19	W	0	63	19	5.8	8.2	3.5	1.6	0.9	W	W	W	19
20		0	74	17	5.8	7.8	3.5	1.5	0.9				20
21		0	272	15	6.6	7.0	3.8	1.4	0.8				21
22		0	90	13	6.2	6.2	3.5	1.2	0.7				22
22		0	82	12	5.8	5.8	3.5	1.2	0.7				23
24		0	48	11	5.4	5.8	3.2	1.2	0.6				24
25		0	33	11	5.0	4.1	3.2	1.2	0.5				25
26		0	25	9.6	5.0	6.6	2.9	1.2	0.5				26
27		0	22	9.0	5.0	7.8	2.9	1.4	0.5				27
28		0	45	9.0	5.0	18	2.9	1.5	0.3				28
29		0	33	8.6		14	2.6	1.5	0.2				29
30		35	28	8.2		10	2.3	1.6	0.1				30
31			25	7.8		8.2		1.6					31
MEAN		1.2	42.5	17.3	6.1	8.7	4.0	2.6	1.1				MEAN
MAX.		35	272	66	7.8	30	7.4	7.0	2.3				MAX.
MIN.		0	4.7	7.8	5.0	4.1	2.3	1.2	0.1				MIN.
AC. FT.		69	2610	1060	340	533	238	157	64				AC. FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
7.0	505		12	21		0		10	1	0000	,5080

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	77	54	26	65	43	6.2	40	72	75	80	82	77	1
2	83	52	45	64	42	7.6	76	66	92	78	82	80	2
3	77	50	90	63	42	31	60	71	107	59	74	79	3
4	75	60	65	62	42	35	52	71	78	67	83	67	4
5	88	66	42	57	41	22	55	67	80	72	75	72	5
6	94	55	32	52	40	20	69	75	84	82	55	84	6
7	101	44	28	49	40	30	64	92	76	62	55	110	7
8	116	35	25	47	40	52	70	95	76	80	69	102	8
9	98	29	32	47	40	30	71	75	76	82	65	89	9
10	78	23	37	47	40	27	68	80	68	82	66	72	10
11	61	20	37	47	40	57	65	65	67	92	58	77	11
12	52	17	30	49	40	50	66	64	62	76	57	80	12
13	60	16	26	67	39	44	67	54	69	74	58	65	13
14	72	14	23	101	39	60	83	57	76	80	65	74	14
15	67	13	21	104	36	89	130	52	88	74	68	63	15
16	62	13	20	80	38	80	83	59	92	67	73	63	16
17	65	12	21	70	39	49	70	66	38	61	73	60	17
18	64	12	102	65	39	49	72	62	56	64	64	54	18
19	62	12	100	62	40	53	52	40	56	63	86	58	19
20	60	12	134	58	39	56	48	55	69	53	92	67	20
21	80	12	568	55	38	69	40	45	69	54	77	67	21
22	78	12	633	53	34	62	70	48	72	58	70	63	22
23	75	12	270	51	11	57	38	51	57	63	78	65	23
24	73	11	172	49	7.8	56	50	59	45	68	90	64	24
25	70	13	120	47	7.0	66	51	75	47	76	83	68	25
26	68	13	95	46	6.8	76	45	76	47	80	92	83	26
27	66	12	89	45	7.2	77	56	86	51	72	75	74	27
28	64	13	95	44	6.6	64	50	90	51	75	68	62	28
29	62	17	96	44		62	70	122	60	73	67	56	29
30	60	31	79	44		61	71	116	66	71	70	60	30
31	56		71	43		49		122		75	73		31
MEAN	73.0	25.2	104	57.3	32.8	49.9	63.4	71.9	68.3	71.4	72.4	72.5	MEAN
MAX.	116	66	633	104	43	89	130	122	107	92	92	110	MAX.
MIN.	52	11	20	43	6.6	6.2	38	40	38	53	55	54	MIN.
AC. FT.	4490	1500	6390	3520	1820	3070	3770	4420	4070	4390	4450	4310	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
63.8	1293		12	22		4.6					46210

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 18 34	120 26 38	SW21 7S 14E	5,400	16.90	3-16-58	NOV 56-DATE		1956		75.00	ASSUMED

Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B05518	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	93	40	52	104	59	12	34	48	84	74	99	114	1
2	116	38	54	102	58	11	22	58	42	94	130	107	2
3	99	36	81	95	57	13	55	65	48	57	112	127	3
4	79	52	96	93	56	14	45	71	65	58	101	103	4
5	74	73	59	77 E	55	15	43	42	37	60	137	71	5
6	78	57	43	77 E	56	16	94	75	35	101	112	79	6
7	97	54	38	77 E	56	18	77	61	34	85	70	102	7
8	110	40	35	67	53	24	77	183	41	84	83	119	8
9	106	32	40	66	53	21	74	71	52	93	119	111	9
10	88	28	45	65	53	21	60	54	49	69	117	83	10
11	68	25	40	66	53	35	41	43	55	108	125	78	11
12	54	23	38	74	53	117	57	33	69	90	99	91	12
13	36	23	36	87	52	207	55	23	47	57	73	85	13
14	35	21	34	141	52	132	157	21	77	64	82	75	14
15	38	20	32	172	51	158	305	24	71	63	113	62	15
16	48	20	31	138	50	172	222	29	129	82	116	66	16
17	80	20	32	113	50	93	198	51	49	56	117	78	17
18	52	19	66	102	50	64	154	49	37	42	101	71	18
19	96	20	125	94	55	66	83	44	36	109	92	71	19
20	85	20	157	85	53	58	33	37	77	64	119	88	20
21	63	20	258	78	47	55	31	52	103	57	104	70	21
22	77	19	700 E	77	45	69	22	44	52	110	81	64	22
23	67	19	393	74	30	78	14	53	59	126	87	107	23
24	68	20	226	69	20	89	17	47	58	110	89	111	24
25	61	23	161	69 E	31	116	25	49	60	117	77	99	25
26	56	22	125	69 E	13	141	28	87	86	136	69	95	26
27	53	21	109	69 E	12	126	43	100	94	106	99	137	27
28	50	20	111	68 E	13	123	48	153	94	69	77	90	28
29	48	54	117	63		94	47	95	92	67	61	45	29
30	46	79	104	61		75	53	73	91	58	67	79	30
31	44		91	60		52		73		74	77		31
MEAN	70	32	114	86	46	74	74	62	64	82	97	89	MEAN
MAX.	166	79	700 E	172	59	207	305	183	129	136	137	127	MAX.
MIN.	35	19	31	60	12	11	14	21	34	42	61	45	MIN.
AC. FT.	4294	1900	7000	5260	2551	4532	4391	3785	3814	5038	5960	5312	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *
a - SEE (a) BELOW

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
74.4	a	8.99	12	22	0000	11	0.06	3	2	DAILY MEAN	53840

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 15 21	120 39 08	NE 9 8S 12E				1930-					

Station located 400 feet downstream from Crane Road Bridge, 6.6 miles southwest of Atwater.

Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs.

Records furnished by Merced Irrigation District. Altitude of gage is 108 feet (from U. S. Geological Survey topographic map). Monthly runoff record dating back to 1947 are published in Bulletin 130-69.

a Maximum stage occurred between 0000 and 0300 Hours at gage height 8.99 feet. Discharge was not determined as water overflowed banks.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	1.0	9.5	2.8	0.8	0.6						1
2		0	4.3	11	2.6	0.8	0.6						2
3		0	3.6	12	2.4	0.8	0.6						3
4		0	0.8	8.5	2.0	0.8	0.5						4
5		0	0.5	7.0	2.0	0.8	0.4						5
6		0	0.2	6.1	1.9	0.8	0.4						6
7		0	0.1	5.5	1.8	0.8	0.4						7
8		0	0.1	4.9	1.7	0.8	0.3						8
9		0	7.0	4.6	1.6	0.6	0.2						9
10		0	1.1	4.0	1.5	0.6	0.2						10
11		0	0.6	4.0	1.5	0.6	0.1						11
12	N	0	0.3	7.0	1.5	0.8	0.1	N	N	N	N	N	12
13	O	0	0.1	30	1.5	8.5	0	O	O	O	O	O	13
14		0	0	26	1.4	8.0	0						14
15		0	0	16	1.4	4.0	0						15
16	F	0	0.1	12	1.3	3.0	0	F	F	F	F	F	16
17	L	0	2.4	9.5	1.5	2.2	0	L	L	L	L	L	17
18	O	0	1.6	8.0	1.3	1.7	0	O	O	O	O	O	18
19	W	0	29	7.0	1.3	1.4	0	W	W	W	W	W	19
20		0	29	6.4	1.2	1.2	0						20
21		0	363	5.8	1.2	1.0	0						21
22		0	134	5.2	1.2	0.8	0						22
23		0	54	4.6	1.1	0.8	0						23
24		0	30	4.0	1.0	0.8	0						24
25		0	21	3.6	0.8	0.8	0						25
26		0	18	3.2	0.8	1.0	0						26
27		0	21	3.0	0.8	1.0	0						27
28		0	22	3.0	0.8	1.0	0						28
29		9.6	16	3.0		1.2	0						29
30		5.8	12	3.0		1.0	0						30
31			11	3.0		0.8							31
MEAN		0.5	25.3	7.8	1.5	1.6	0.1						MEAN
MAX.		9.6	363	30	2.8	8.5	0.6						MAX.
MIN.		0	0	3.0	0.8	0.8	0						MIN.
AC. FT.		31	1550	477	83	98	8.7						AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
3.1	804		12	21		0		10	1	0000	2250

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 22 27	120 16 35	NE 36 6S 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USCGS

Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	71	51	184	242	109	44	37	35	78	20	17	21	1
2	62	46	163 *	234	107	45 *	30 *	30	72	18	15	32	2
3	52	45	152	225	106 *	42	27	36	57 *	19	17 *	38	3
4	33	75	164	184	105	41	31	31	61	23	21	41	4
5	23 *	95 *	142	149 *	102	39	28	47 *	47	22	24	41	5
6	13	116	119	138	102	41	27	49	31	20	21	41	6
7	8.7	115	106	137	101	43	30	54	21	23	21	38	7
8	19	101	97	131	101	39	32	70	17	21	19	36 *	8
9	25	79	86	124	101	42	28	128	19	19	22	36	9
10	34	61	86	119	101	44	22	100	20	16	23	33	10
11	33	45	83	115	100	45	20	64	26	17	27	38	11
12	23	51	75	118	100	49	19	63	30	19	27	33	12
13	16	61	71	125	98	55	17	63	21	20	25	32	13
14	12	44	73	134	95	60	25	52	15	19 *	23	37	14
15	8.1	37	68	150	93	70	54	50	12	22	23	44	15
16	1.9	32	64	158	92	79	136	41	11	19	21	46	16
17	4.5	30	65	158	91	83	124	30	9.2	15	24	33	17
18	4.6	21	71	193	94	75	134	29	8.5	15	25	29	18
19	5.5	17	190	201	94	58	126	31	11	13	20	25	19
20	48	19	281	201	77	51	64	32	18	13	17	25	20
21	60	17	326	192	56	48	43	29	20	17	13	30	21
22	62	14	527	179	54	43	37	30	24	21	18	28	22
23	70	12	748	168	58	40	37	24	24	19	24	26	23
24	65	12	686	157	55	38	34	27	16	20	28	29	24
25	62	12	581	149	57	38	30	28	12	21	27	38	25
26	57	35	439	141	57	51	22	24	13	21	32	33	26
27	55	52	337	134	53	63	23	38	13	22	32	33	27
28	40	46	304	129	41	70	22	40	14	21	28	44	28
29	35	80	281	124		64	27	77	17	21	27	46	29
30	49	147	263	116		50	27	78	19	22	27	39	30
31	51		246	111		43		80		21	25		31
MEAN	35.6	52.3	228	156	85.7	51.4	43.8	48.7	25.2	19.3	23.0	34.8	MEAN
MAX.	71	147	748	242	109	83	136	128	78	23	32	46	MAX.
MIN.	1.9	12	64	111	41	38	17	24	8.5	13	13	21	MIN.
AC. FT.	2188	3110	14040	9592	4760	3160	2604	2995	1501	1188	1414	2073	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
67.2	765	65.99	12	23	1245	1.2	62.09	10	16	1345	48620

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flows regulated by upstream reservoirs and diversions.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B00975	PANOCHE DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33	19	38	20	35	72	51	49	67	66	72	54	1
2	35 *	18 *	35	20	39	66	53	50	66	70	68	52 *	2
3	32	18	31	20	41 *	66 *	53	52	62 *	73	72	53	3
4	31	19	30	20 *	36	70	52	52	57	77	74 *	51	4
5	35	16	33	20	36	72	54 *	58	50	77	73	43	5
6	34	17	31	20	39	67	52	60	53	74	72	37	6
7	29	16	28	20	38	66	56	65	48	71	77	41	7
8	23	12 E	26	23	35	65	63	73	52	70 *	76	50	8
9	25	12 E	31	24	42	64	65	74	52	72	72	50	9
10	25	14 E	29	26	41	62	66	73	60	75	74	49	10
11	20	14 E	32	26	39	59	62	73	61	73	79	54	11
12	20	14 E	31	24	37	63	62	72 *	65	73	81	53	12
13	17	14 E	30	24	42	69	66	70	64	74	81	47	13
14	18	14 E	26	23	38	72	70	68	61	73	81	46	14
15	21	17	27	24	43	72 *	71	65	60	70	82	49	15
16	25	21	30	24	46	73	68	62	64	73	81	50 *	16
17	24	23	33	23	52	72	70	59	62	78	76	48	17
18	26	30	29	24	50	66	69	58	68	78	76 *	52	18
19	29	30	58	26	48	56	61	58	68	79	78	43	19
20	25	33	40	28	58	60	62	63	70	78	78	36	20
21	22	31	39	27	61	61	57	65	72	79	78	38	21
22	22	38	27	30	67	64	47	66	71	80	73	39	22
23	19	32	25	30	65	66	48	69	70	82	72	37	23
24	19	35	25	30	61	63	47	70	70	82	70	35	24
25	17	36	31	26	56	60	50	67	72	82	72	30	25
26	17	49	25	25	52	64	50	64	72	82	67	30	26
27	18	34	23	27	65	50	42	68	73	80	55	24	27
28	19	54	20	28	71	49	50	73	74	77	53	26	28
29	22	69	20	28		52	51	72	70	71	53	27	29
30	20	60	20	25		46	45	73	65	70	59	25	30
31	19		21	27		43		70		69	53		31
MEAN	23.9	27.0	29.8	24.6	47.6	62.9	57.1	64.9	64.0	75.1	71.9	42.3	MEAN
MAX.	35	69	58	30	71	73	71	74	74	82	82	54	MAX.
MIN.	17	12E	20	20	35	43	42	49	48	66	53	24	MIN.
AC. FT.	1470	1605	1833	1511	2644	3868	3398	3989	3806	4618	4419	2517	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
49.3	83	8.43	7	23	1900	12E		11	8		35680

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 55 25	120 41 19	NW 5 12S 12E	69. 84.a	9.19 9.04	11-24-65 5-31-69	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959		-2.00	LOCAL

Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).

a In April 1969, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B00470	SALT SLOUGH NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	110	41	192	147	163	230	228	136	299	149	101	122	1
2	118	36	207 *	145	173	237 *	213 *	155	284	134	107	125	2
3	107	34	225	139	177 *	221	194	183	269 *	120	111 *	115	3
4	112	59	226	136	166	216	201	201	248	124	80	98	4
5	93 *	103 *	228	120 *	154	216	196	198 *	229	135	82	132	5
6	88	104	227	118	151	206	197	221	215	139	82	128	6
7	67	113	225	139 E	152	199	193	201	232	128	66	143	7
8	39	121	225	137 E	151	204	198	225	198	112	83	120 *	8
9	35	126	222	133 E	150	213	199	259	165	113	100	103	9
10	38	128	217	130 E	144	208	208	277	175	123	111	117	10
11	50	132	215	127 E	141	213	227	248	182	110	119	106	11
12	46	142	215	123 E	143	217	243	236	190	118	109	104	12
13	38	153	223	119 E	141	234	236	214	197	135	129	115	13
14	42	155	217	115 E	142	257	223	195	214	138 *	108	111	14
15	46	153	214	110 E	143	257	229	161	243	151	116	109	15
16	43	138	210	95	138	257	260	148	235	133	121	107	16
17	39	132	207	90	133	261	244	149	217	115	118	109	17
18	32	128	202	117	142	251	240	164	202	122	113	77	18
19	38	139	206	137	157	246	245	168	180	121	114	63	19
20	39	138	212	150	169	246	216	163	150	135	111	66	20
21	56	137	213	161	197	246	198	171	156	112	107	59	21
22	62	123	209	174	206	246	186	189	168	86	112	68	22
23	42	125	203	188	201	229	187	203	145	81	127	58	23
24	42	118	198	195	194	235	175	203	122	89	134	58	24
25	37	117	196	193	193	238	160	191	148	87	122	63	25
26	39	121	193	183	193	268	154	180	153	90	104	65	26
27	69	122	186	169	199	280	150	178	180	101	94	66	27
28	39	128	173	163	211	275	154	230	195	74	100	61	28
29	37	153	166	160		276	143	278	196	77	122	48	29
30	51	185	161	169		261	132	290	186	74	144	41	30
31	59		154	165		241		306		91	130		31
MEAN	56.6	120	205	143	165	238	201	204	199	113	109	91.9	MEAN
MAX.	118	185	228	195	211	280	260	306	299	151	144	143	MAX.
MIN.	32	34	154	90	133	199	132	136	122	74	66	41	MIN.
AC. FT.	3477	7148	12630	8820	9172	14650	11960	12540	11850	6976	6698	5468	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
154	311	66.85	5	31	1530	27	63.64	10	14	1645	111400

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 14 52	120 51 04	SE10 8S 10E	419	70.35	6-10-69	MAR 68-DATE		1968		0.00	USCGS

Station located at Lander Avenue bridge, 5.5 miles south of Stevinson. This includes drainage being returned to San Joaquin River.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1971	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.0	0.3	5.2*	7.7	3.5	2.8	4.0	1.7	1.3	0.2*	0.2	0.2	1
2	2.2	0.3	20	8.2	3.1	2.7*	3.8	1.8	1.2*	0.2	0.2	0.2	2
3	1.9	0.3	6.4	5.8	2.8	3.1	3.7	2.4*	1.1	0.2	0.2	0.3*	3
4	0.4	0.6	8.6	4.3	3.1	3.5	3.5	2.3	1.0	0.2	0.2	0.2	4
5	0.3	0.6	5.4	1.8	2.9	3.2	3.2*	2.1	1.0	0.2	0.2	0.2	5
6	1.5*	0.4	3.8	1.7	2.9	3.1	3.1	2.1	0.9	0.2	0.2	0.3	6
7	1.6	0.3	3.5	1.6	2.8	2.9	3.2	2.3	0.9	0.2	0.2	0.3	7
8	0.4	0.3	4.3	1.5*	2.8	2.9	3.1	2.7	0.9	0.2	0.3	0.3	8
9	0.3	0.3	6.0	1.4	2.7	2.7	2.8	2.4	0.8	0.3	0.3*	0.3	9
10	0.3	0.3	3.8	1.4	2.7	2.5	2.7	2.1	0.8	0.2	0.3	0.2	10
11	0.2	0.3	3.4	1.7	2.7	2.5	2.7	2.0	0.8	0.2	0.3	0.2	11
12	0.2	0.4	3.1	3.4	2.5	5.5	2.5	1.8	0.8	0.2	0.3	0.2	12
13	0.2	0.3	2.7	4.5	2.4	10	2.5	1.6	0.8	0.2	0.3	0.2	13
14	0.2	0.3	2.4	11	2.4	5.8	2.5	1.6	0.7	0.2	0.3	0.2	14
15	0.2	0.3	2.3	11	2.4	5.6	2.4	1.5	0.7	0.2	0.3	0.2	15
16	0.2	0.3	14	9.6	2.4	4.8	2.3	1.4	0.6	0.2	0.3	0.2	16
17	0.2	0.2*	12	5.8	2.5	4.3	2.8	1.4	0.5	0.2	0.3	0.1	17
18	0.2	0.2	7.0	9.1	2.4	4.0	2.9	1.4	0.5	0.2	0.3	0.1	18
19	0.2	0.2	7.7	9.9	3.7	3.5	2.3	1.3	0.5	0.2	0.3	0.1	19
20	0.2	0.2	7.0	8.2	2.8	3.4	2.3	1.3	0.5	0.2	0.3	0.1	20
21	0.2	0.2	8.2	6.2	2.7	3.1	2.3	1.3	0.5	0.2	0.3	0.2	21
22	0.2	0.2	6.8	6.0	2.7	2.9	2.1	1.3	0.4	0.2	0.3	0.2	22
23	0.3	0.2	5.8	5.8	2.7	3.2	2.1	1.2	0.4	0.2	0.3	0.1	23
24	0.3	0.3	5.0	5.2	2.5	3.2	2.1	1.1	0.4	0.2	0.3	0.2	24
25	0.3	2.9	4.5	4.5	2.4	4.0	2.2	1.1	0.4	0.2	0.3	0.2	25
26	0.3	2.7	5.0	4.1	2.3	12	2.2	1.2	0.4	0.2	0.2	0.2	26
27	0.3	0.8	17	4.3	2.4	9.4	2.1	1.3	0.4	0.2	0.2	0.2	27
28	0.3	4.1	14	4.0	2.8	6.6	2.0	1.6	0.3	0.2	0.2	0.2	28
29	0.3	17 *	12	4.0*		5.2	1.8	1.5	0.3	0.2	0.2	0.2	29
30	0.3	5.6	10	3.7		4.8	1.7	1.4	0.3	0.2	0.2	0.4	30
31	0.3		8.4	3.7		4.3		1.4		0.2	0.2		31
MEAN	0.5	1.3	7.3	5.2	2.7	4.4	2.6	1.7	0.7	0.2	0.3	0.2	MEAN
MAX.	2.2	17	20	11	3.7	12	4.0	2.7	1.3	0.3	0.3	0.4	MAX.
MIN.	0.2	0.2	2.3	1.4	2.3	2.5	1.7	1.1	0.3	0.2	0.2	0.1	MIN.
AC. FT.	32	80	447	320	151	273	156	102	40	12	16	12	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
2.3	36	2.58	12	2	0645	0.1	1.12	9	16	1900	1641

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965		0.00	LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville. Maximum discharge of record from rating curve extended above 758 cfs. There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B51250	MAXWELL CREEK AT COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.1	0.2	6.1*	5.4	2.2	2.8	3.8	1.3	0.7	0.1*			1
2	0.1	0.3	32	6.7	2.2	2.4*	3.4	1.4	0.7*	0.1			2
3	0.1	0.3	8.2	4.9	2.2	2.2	3.0	2.2*	0.6	0.1		*	3
4	0.1	0.6	9.3	4.1	2.2	2.2	3.0	1.9	0.5	0.0			4
5	0.1	0.8*	6.1	3.8	2.1	2.2	2.8*	1.6	0.5	0.1			5
6	0.1*	0.8	3.4	3.4	2.1	2.2	2.6	1.8	0.5	0.0			6
7	0.1	0.8	2.8	3.2	2.1	2.2	2.6	2.1	0.5	0.0			7
8	0.1	0.5	3.0	3.0*	2.1	2.1	2.4	2.6	0.4	0.0			8
9	0.1	0.5	6.7	2.8	2.1	2.1	2.2	1.9	0.4	0.0	*		9
10	0.1	0.5	3.8	2.6	2.1	1.8	2.1	1.6	0.4	0.0			10
11	0.1	0.5	3.0	2.8	2.1	1.8	1.9	1.5	0.3	0.0			11
12	0.1	0.8	2.4	11	1.9	5.1	1.9	1.4	0.3	0.0	N	N	12
13	0.1	0.5	2.1	22	1.9	16	1.9	1.3	0.3	0.0	O	O	13
14	0.1	0.5	1.8	24	1.9	7.0	1.9	1.3	0.3	0.0			14
15	0.1	0.5	1.6	17	1.9	6.1	1.9	1.1	0.3	0.0			15
16	0.1	0.5	30	14	1.9	4.9	1.8	1.0	0.2	0.0	F	F *	16
17	0.1	0.5	30	12	1.9	4.1	2.6	1.0	0.2	0.0	L	L	17
18	0.1	0.5	14	8.9	1.8	3.6	2.4	1.0	0.2	0.0	O	O	18
19	0.1	0.5	18	7.0	3.0	3.4	1.8	0.8	0.2	0.0	W	W	19
20	0.1	0.5	13	6.1	2.4	3.2	2.1	0.8	0.2	0.0			20
21	0.1	0.5	51 *	5.2	2.1	3.0	2.1	0.8	0.1	0.0			21
22	0.1	0.5	20	4.6	2.1	2.6	1.6	0.8	0.1	0.0			22
23	0.2	0.5	11	4.1	2.1	2.8	1.6	0.7	0.1	0.0			23
24	0.2	0.5	8.2	3.6	1.9	2.6	1.6	0.6	0.1	0.0			24
25	0.2	3.0	6.1	3.2	1.8	3.4	1.8	0.6	0.1	0.0			25
26	0.2	9.8	5.4	3.0	1.8	15	1.6	0.6	0.1	0.0			26
27	0.2	2.1	28	2.8	2.2	13	1.4	0.8	0.1	0.0			27
28	0.2	4.1	18	2.6	2.6	7.4	1.4	1.0	0.1	0.0			28
29	0.2	28 *	11	2.6*		6.1	1.4	0.9	0.1	0.0			29
30	0.2	7.4	8.9	2.4		4.9	1.4	0.8	0.1	0.0			30
31	0.2		6.7	2.2		4.1		0.8		0.0			31
MEAN	0.1	2.2	12.0	6.5	2.1	4.6	2.1	1.2	0.3	0.0			MEAN
MAX.	0.2	28	51	24	3.0	16	3.8	2.6	0.7	0.1			MAX.
MIN.	0.1	0.2	1.6	2.2	1.8	1.8	1.4	0.6	0.1	0.0			MIN.
AC. FT.	8	133	737	399	116	282	127	75	17	1			AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
2.6	94	3.90	12	16	1550	0.0	2.55	6	22	1800	1896

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 42 58	120 11 20	SE34 2S 16E	1770E	5.71	12-23-64	DEC 58-DATE		1958		0.00	LOCAL

Station located on downstream side of Dogtown Road Bridge, 0.5 mile northeast of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record from rating curve extended above 902 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic map). There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	805170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	59	86	143	656	295	171 *	98 *	57	86	55	58	72	1
2	59 *	84 *	146 *	664	309	168	117	62	93	62	62	68	2
3	59	98	145	668	306 *	171	123	79 *	76 *	65	59	79 *	3
4	63	126	145	699 *	309	171	114	107	65	60	65 *	82	4
5	65	126	143	707	309	158	109	77	82	57	67	84	5
6	56	126	141	699	320	145	130	84	77	67	60	93	6
7	218	130	145	699	323	156	116	98	84	75	60	98	7
8	247	123	143	643	554	166	109	98	82	76	65	106	8
9	254	124	145	341	866	141	111	75	76	71	65	92	9
10	254	130	313	320	881	126	93	58	77	71	71	86	10
11	163	133	673	314	851	139	112	60	84	65	80	83	11
12	135	132	664	314	775	141	103	60	83	64 *	72	79	12
13	92	132	664	309	341	160	114	63	84	64	71	76	13
14	87	137	677	303	320	154	121	65	96	73	69	71	14
15	84	135	694	289	311	158	79	75	98	69	68	64	15
16	83	133	694	286	309	160	90	64	116	75	72	76	16
17	80	135	690	284	295	148	106	64	68	99	75	76	17
18	82	135	699	289 *	297	126	117	56	63	82	65	77	18
19	80	132	725	284	297	128	99	75	89	76	54	80	19
20	60	145	673	286	295	132	86	71	89	72	58	77	20
21	67	137	775	292	292	139	71	79	84	77	73	82	21
22	84	135	699	297	295	141	62	63	87	60	69	87	22
23	89	133	681	297	222	139	58	71	75	67	65	92	23
24	92	132	643	292	148	119	50	69	69	64	72	92	24
25	89	141	686	289	173	123	57	77	72	64	63	95	25
26	89	135	699	292	173	141	63	86	77	72	64	106	26
27	89	132	699	286	175	148	60	92	72	73	69	96	27
28	87	135	686	289	181	124	58	103	68	69	76	99	28
29	87	148	677	292		123	47	89	72	57	77	99	29
30	90	150	677	292		112	73	98	65	54	82	107	30
31	86		673	292		106		86		58	82		31
MEAN	104	129	518	396	365	143	91.5	76.2	80.3	68.2	68.0	85.8	MEAN
MAX.	254	150	775	707	881	171	130	107	116	99	82	107	MAX.
MIN.	59	84	141	284	148	106	47	56	63	54	54	64	MIN.
AC. FT.	6405	7696	31850	24330	20280	8795	5447	4683	4778	4191	4181	5105	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
176	926	8.74	12	21	0630	24	5.62	7	22	1050	127700

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	142	147	247	693	380	246 *	143 #	150	143	70	51	80	1
2	151 *	142 *	239 *	698	385	235	153	132	122	64	62	101	2
3	150	141	292	689	385 *	232	171	135 *	110 *	60	61	88 *	3
4	148	161	259	702 *	386	238	180	156	108	75	55 *	107	4
5	136	200	234	725	382	235	187	171	92	85	58	122	5
6	131	205	226	693	382	181	156	165	92	71	62	122	6
7	133	208	223	718	385	202	184	161	97	63	62	125	7
8	230	202	219	720	386	208	183	179	76	68	54	133	8
9	333	190	219	597	668	205	151	192	82 E	87	56	151	9
10	335	187	217	426	828	200	169	176	82 E	83	66	165	10
11	336	189	381	402	829	177	166	153	84 E	86	65	156	11
12	275	195	691	411	818	191	177	129	84 E	87 *	67	160	12
13	213	192	642	436	654	219	176	137	85 E	66	67	166	13
14	184	189	652	446	415	239	194	123	84 E	45	70	158	14
15	160	192	669	413	396	232	204	108	84 E	39	79	139	15
16	152	192	691	395	383	230	171	111	87	48	101	127	16
17	154	188	722	388	373	231	176	113	109	57	80	116	17
18	146	188	726	382	367	216	197	101	87	91	68	118	18
19	131	188	788	379	382	196	213	89	62	96	83	128	19
20	135	181	819	374	370	193	199	103	66	65	70	146	20
21	133	196	912	372	362	192	186	115	91	52	82	173	21
22	121	192	911	377	361	196	166	123	79	57	78	165	22
23	137	189	759	377	363	190 E	158	121	73	59	84	177	23
24	155	187	731	380	288	184 E	147	127	74	42	88	190	24
25	156	195	721	375	239	177 E	138	109	81	55	83	185	25
26	152	207	719	373	245	172 E	143	95	71	76	80	182	26
27	146	197	724	376	241	167 E	133	107	80	74	62	193	27
28	147	198	725	371	246	161 E	132	138	88	81	48	192	28
29	143	221	713	373		156 E	134	148	74	103	54	202	29
30	142	238	705	375		151 E	128	143	65	89	67	205	30
31	156		698	378		146 E		154		70	63		31
MEAN	173	190	564	378	425	200	167	134	87.1	69.8	68.6	149	MEAN
MAX.	336	238	912	725	829	246	213	192	143	103	101	205	MAX.
MIN	121	141	217	371	239	146	128	89	62	39	48	80	MIN.
AC. FT.	10640	11300	34660	29380	23600	12290	9947	8259	5181	4292	4217	8870	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF FLOW MADE THIS DAY.
# — E AND R

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
225	1280	14.82	12	21	2000	31	10.44	7	14	2230	162600

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950 1962	1962	96.24 86.23	USCGS USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions.

a Reflects present datum.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	800525	MUSTANG CREEK NEAR BALLICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.0	3.9	0.0		0.0*	0.0*						1
2	0.0*	0.0*	3.2*	0.1		0.0	0.0						2
3	0.2	0.0	1.8	0.1	*	0.0	0.0	*	*			*	3
4	0.6	0.0	0.7	0.0*		0.0	0.0				*		4
5	1.9	0.0	0.3	0.0		0.0	0.0						5
6	0.7	0.0	0.1	0.0		0.0	0.0						6
7	0.0	0.0	0.0	0.0		0.0	0.0						7
8	0.0	0.0	0.0	0.0		0.0	0.5						8
9	0.0	0.0	0.0	0.0		0.0	0.1						9
10	0.0	0.0	0.0	0.0		0.0	1.0						10
11	0.0	0.0	0.1	0.0		0.0	0.1						11
12	1.2	0.0	1.4	0.0	N	0.0	0.0	N	N	N *	N	N	12
13	1.3	0.0	2.0	0.0	O	0.0	0.0	O	O	O	O	O	13
14	0.0	0.0	1.1	0.0		0.0	0.0						14
15	0.0	0.0	0.2*	0.0		0.0	0.5						15
16	0.0	0.0	0.2	0.0	F	0.0	0.9	F	F	F	F	F	16
17	0.0	0.0	2.5	0.0	L	0.0	1.0	L	L	L	L	L	17
18	0.0	0.0	2.3	0.0	O	0.0	3.5	O	O	O	O	O	18
19	0.0	0.0	6.6	0.0	W	0.0	2.6	W	W	W	W	W	19
20	0.0	0.0	4.4	0.0		0.0	1.2						20
21	0.0	0.0	6.1*	0.0		0.0	0.5						21
22	0.0	0.0	5.6	0.0		0.0	0.0						22
23	0.0	0.0	3.8	0.0		0.0	0.1						23
24	0.0	0.0	2.4	0.0		0.0	1.0						24
25	0.0	0.0	1.6	0.0		0.0	0.5						25
26	0.4	0.0	1.0	1.6		3.0	0.0						26
27	0.4	0.0	0.9	0.8		3.1	0.3						27
28	0.2	0.0	0.5	1.7		1.5	1.8						28
29	0.6	8.7*	0.3	0.5		0.7	1.4						29
30	0.3	5.4	0.1	0.1		0.2	0.6						30
31	0.0		0.0	0.0		0.0							31
MEAN	0.3	0.5	1.7	0.2		0.3	0.6						MEAN
MAX.	1.9	8.7	6.6	1.6		3.1	3.5						MAX.
MIN.	0.0	0.0	0.0	0.0		0.0	0.0						MIN.
AC. FT.	16	28	105	10		17	35						AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
0.3	9.69	1.92	11	29	1500	0		10	1	0000	210

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 29 58	120 39 48	NW16 5S 12E	281	5.63	1-21-69	NOV 65^{a}-DATE		1965		0.00	LOCAL

Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map).

a Station installed in November 1965, but data were insufficient to publish prior to 1969. Discharge measurements and partial gage height records are available in DWR files.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B08720	ORESTIMBA CREEK NEAR CROWS LANDING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.5	0.0	1.7	0.0	0.1*	6.5	23	20	89 *	14	11	33	1
2	5.9	0.0	1.3*	0.4	0.1	11 #	42 *	12	64	12	35	56	2
3	4.4	0.0	0.2	0.1	0.1	46	15	16	74	11	26	22	3
4	11	5.5	0.0	0.1	0.1	15	12	37	29	31	16	14	4
5	33 *	16 *	0.0	0.1	0.1	9.2	23	44 *	32	43	15	14	5
6	17	13	0.0	0.1*	0.1	6.5	19	31	15	39	15 *	7.5	6
7	2.2	6.3	0.0	0.1	0.1	4.4	14	28	19	26	15	24 *	7
8	0.6	6.8	0.0	0.0	0.1	8.5	15	43	15	15	25	43	8
9	0.0	11	0.0	0.0	0.1	32	12	31	14	15	27	31	9
10	0.0	13	0.0	0.1	1.2	21	11	55	16	26	15	3.7	10
11	0.0	26	0.0	0.1	1.7	24	26	94	23	39	13	2.1	11
12	0.2	12	0.0	0.1	0.4	15	33	36	15	35	22	13	12
13	1.1	23	0.0	0.2	0.0	46	9.8	6.8	16	24	15	32	13
14	1.0	7.7	0.0	18	0.0	22	12	5.0	35	17 *	16	44	14
15	0.2	0.8	0.0	53	0.0	21	57	5.9	34	12	11	26	15
16	0.4	0.1	0.0	20	0.0	28	83	9.0	17	15	22	8.7	16
17	0.4	0.0	0.0	5.4	0.0	6.5	115	9.2	23	13	12	8.5	17
18	0.6	0.0*	0.2	0.7	0.0	8.7	83	18	16	23	11	4.8	18
19	0.7	0.0	0.5	0.2	0.0	20	70	24	22	19	13	4.2	19
20	0.1	0.0	22	0.1	0.2	14	90	20	28	17	13	3.9	20
21	0.5	0.0	99 *	0.1	6.5	15	59	10	30	22	11	4.0	21
22	0.8	0.0	88 *	0.0	6.1	16	24	25	22	28	14	8.2	22
23	0.6	0.0	25	0.0	92	11	15	63	14	18	45	6.8	23
24	0.0	0.0	5.8	0.0	128 E	11	13	51	27	21	17	5.4	24
25	0.0	0.0	0.6	0.0	79 E	44	11	73	13	23	12	5.4	25
26	0.0	0.0	0.2	0.0	36 E	121 *	16	33	13	28	19	1.7	26
27	0.0	0.0	0.2	0.0	7.0E	71	19	28	39	16	9.5	4.4	27
28	16	18	0.1*	0.0	1.1E	44	11	66	35	14	6.5	10	28
29	18	12	0.0	0.1		67	20	94	32	18	12	0.9	29
30	2.0	4.4	0.0	0.1		21	19	65	35	16	14	0.6	30
31	0.2		0.0	0.1		12		39		12	8.0		31
MEAN	3.9	5.9	7.9	3.2	12.9E	25.8	32.4	35.2	28.5	21.4	16.6	14.8	MEAN
MAX.	33	26	99	53	128 E	121	115	94	89	43	45	56	MAX.
MIN.	0.0	0.0	0.0	0.0	0.0	4.4	9.8	5.0	13	11	6.5	0.6	MIN.
AC. FT.	239	348	486	197	714E	1583	1926	2166	1698	1313	1023	878	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
17.4	224	52.25	12	21	1545	0		10	9	0400	12570

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 24 51	121 00 52	NE18 6S 9E	2650E	12.08a	2-1-63	DEC 57-DATE		1957	1968	0.00	LOCAL
								1968		0.00	USCGS

Station located 40 feet upstream from River Road Bridge, 3.7 miles southeast of Crows Landing. Prior to February 1, 1968, the station was located 500 feet downstream and was on local datum. During summer months most flows are irrigation drainage returned to San Joaquin River. Maximum discharge of record from rating curve extended above 1,654 cfs.

a Local datum then in use.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	514	449	1110	1510	1020	727	768	550	829 *	442	327	395	1
2	519	457	1190	1490	988	727	746	579	826	413 *	337	416	2
3	522	434	1270	1420	969	794 *	690	611	784	390	332	416	3
4	528	444	1280	1390 *	954 *	832	647	638	711	403	327	382	4
5	562 *	525	1230	1350	924	803	677	659	656	395	305	364	5
6	519	577	1130	1320	890	730	690	662	632	418	303 *	408	6
7	473	610	1080 *	1280	876	683	708	677 *	629	421	301	410 *	7
8	467	631	1030	1270	872	683	724 *	765	602	400	291	426	8
9	465	650	1010	1270	861	690	727	875	556	377	312	392	9
10	505	640 *	980	1170	976	699	717	972	516	367	315	349	10
11	522	625	938	1000	1180	742	736	918	527	410	320	379	11
12	536	610	927	927	1230	721	777	784	522	423	315	410	12
13	511	625	1110	909	1240	780	724	742	505	403	305	447	13
14	470	628	1190	924	1170	829	780	696	533	395	332	426	14
15	446	598	1240	1010	965	898	852	674	530	347	308	387	15
16	431	634	1310	996	887	925	955	638	516	344	327	374	16
17	408	622	1350	973	861	918	1060	608	516	322	327	382	17
18	379	598	1370	1010	826	885	1090	588	491	347	320	397	18
19	365	580	1400	1180	819	868	1040	564	475	384	315	405	19
20	362	580	1530	1260	822	842	983	547	475	379	301	405	20
21	374	571	1790	1290	808	832	885	547	469	379	329	374	21
22	403	571	1970	1270	808	806	724	573	445	372	347	369	22
23	426	571	2160	1250	872	755	690	623	434	315	392	390	23
24	454	562	2150	1250	901	746	687	629	458	317	387	382	24
25	441	577	2110	1240	829	784	632	635	418	344	379	390	25
26	452	592	1990	1190	750	898	626	594	434	352	372	382	26
27	452	613	1830	1150	714	921	611	582	445	344	344	405	27
28	481	681	1710	1110	714	925	567	653	480	337	332	423	28
29	467	815	1620	1070		962	556	721	477	342	315	408	29
30	431	965	1580	1050		918	547	761	477	325	342	437	30
31	431		1560	1040		842		765		298	384		31
MEAN	462	598	1424	1180	919	812	754	672	546	371	330	398	MEAN
MAX.	562	965	2160	1510	1240	962	1090	972	829	442	392	437	MAX.
MIN.	362	434	927	909	714	683	547	547	418	298	291	349	MIN.
AC. FT.	28400	35570	87560	72530	51030	49910	44860	41320	32470	22820	20320	23660	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
705	2180	43.27	12	23	2100	284	38.31	8	8	0400	510400

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs, and diversions.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	638 E	469	1180	1680	1170 *	688 *	777	536	777	434	333	438	1
2	658 E	475	1280	1660	1130	677	770	591	794 *	417	364	448	2
3	682 E	467	1340	1600	1100	727	691	689	760	421	342	439	3
4	705 E	463	1380 *	1570	1070	851	607	753	710	443	331	431	4
5	728 #	539	1350	1530	1040	816	615	775 *	595	433	308	433	5
6	682	596	1260	1510	1000	741	597 *	784	592	425	313 *	486	6
7	602	634	1200	1470 *	969	695	635	779	602	424	320	486 *	7
8	590	643	1160	1440	950	698	645	863	565	416	332	486	8
9	569	660 *	1130	1440	936	682	662	1020	499	363	313	444	9
10	595	665	1100	1390	980	698	662	1100	477	340	312	427	10
11	606	650	1060	1220	1170	707	737	1000	501	376	314	457	11
12	622	627	1030	1130	1230	698	765	855	504	413	314	529	12
13	619	632	1160	1100	1250	796	685	812	482	376 *	310	561	13
14	586	657	1280	1100	1220	875	777	747	528	376	315	541	14
15	577	628	1330	1170	1030	947	865	690	490	339	349	506	15
16	566	636	1400	1180	928	992	1040	636	457	323	318	473	16
17	516	646	1440	1160	893	970	1150	610	479	346	318	475	17
18	472	612	1470	1170	862	869	1220	587	465	365	315	480	18
19	451	599	1530	1310	833	859	1150	588	450	384	316	506	19
20	438	592	1610	1420	812	798	1070	584	465	375	318	536	20
21	426	588	1820	1440	812	787	960	603	442	366	342	505	21
22	448	579	2020	1440	799	754	799	606	392	373	416	483	22
23	459	581	2200	1420	815	701	770	672	387	340	456	509	23
24	498	581	2230	1410	866	708	718	671	436	302	420	535	24
25	481	599	2200	1410	814	751	654	620	423	333	402	549	25
26	482	616	2130	1360	721	925	629	585	437	334	400	548	26
27	484	621	2000	1310	679	978	631	549	475	318	390	562	27
28	502	699	1880	1260	681	979	601	641	510	322	390	560	28
29	511	944	1790	1230		1020	590	694	510	345	393	544	29
30	466	1040	1740	1210		1000	592	739	467	316	406	549	30
31	460		1720	1190		896		739		305	416		31
MEAN	552	625	1530	1353	956	816	769	713	522	369	351	498	MEAN
MAX.	728	1040	2230	1680	1250	1020	1220	1100	794	443	456	562	MAX.
MIN.	426	463	1030	1100	679	677	590	536	387	302	308	427	MIN.
AC. FT.	33960	37170	94060	83170	53080	50150	45750	43870	31080	22700	21590	29610	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN
DISCHARGE
754

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
2240	37.20	12	24	0330

MINIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
280	32.00	7	24	0415

TOTAL
ACRE FEET
546200

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38		APR 38-SEP 66	1938	1959	0.00	USED
				50.47a	6-13-38	OCT 69-DATE		1959		0.00	USCGS
			5460b	42.65	3- 9-70			1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-69.

a Reflects present datum.
b Maximum discharge since station was rated in October 1969.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	804175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11	0.1	199 *	2400	1860	848	344	33	10	6.9*	18	11	1
2	61 *	0.1*	197	2600	1910 *	598	498	36	12 *	8.6	19	11	2
3	17	0.1	364	2600	1550	605	264	24	12	9.1	23	11 *	3
4	9.6	0.2	1380	2390	1440	611 *	236	20	11	9.4	29	10	4
5	9.6	0.3	2500	1540 *	1600	647	769	19 *	12	8.5	120	5.1	5
6	10	0.3	2480	931	1680	957	612	19	11	9.[illegible]	16	6.6	6
7	11	0.4	1750	930	1580	1020	527 *	21	11	8.2	15	11	7
8	12	11	903 *	928	1670	698	449	29	12	8.1	13	11	8
9	12	138	600	924	1520	601	416	7.2	12	18	15 *	11	9
10	12	233	556	874	1530	623	226	15	14	28	24	11	10
11	5.7	231	596	905	1730	614	226	11	13	25	17	6.8	11
12	5.2	231	774	1440	1520	607	458	10	13	23	14	5.4	12
13	7.7	226	912	2410	530	747	287	8.6	11	35	14	4.8	13
14	8.3	223	1080	2330	685	902	158	8.5	11	24	13	8.7	14
15	8.5	221	1190	2200	1670	802	141	8.7	13	15	13	8.6	15
16	1.5	207	1400	1720	1730	652	125	8.3	13	16	14 E	8.3	16
17	5.0	207 *	2050	1530	1670	595	123	8.8	12	18	17 E	7.6	17
18	8.2	207	2190	1520	1660	581	121	9.4	13	14	19	7.2	18
19	17	207	2300	1540	1640	397	130	9.5	12	15	18 *	5.6	19
20	4.7	208	2280	1530	1680	251	126	10	11	20	18	8.7	20
21	2.5	209	2220	1570	1640	274	129	25	11	21	10	7.7	21
22	1.5*	207	2220	1730	1400	273	129	11	13	19	8.7	7.3	22
23	1.2	208	2230	2050	1530	250	127	9.9	14	18	8.9	7.4	23
24	1.0	209	2330	1870	1470	266	126	76	12	17	13	8.9	24
25	0.6	208	2390	1560	1330	261	125	21	10	15	12	8.7	25
26	0.4	207	2440	1280	1210	259	124	11	9.4	15	71	8.8	26
27	0.3	206	2480	1030	744	178	125	11	7.2	17	12	9.5	27
28	0.2	205	2500	895	863	207	126	11	6.9	19	12	9.7	28
29	0.1	204	2140	932		248	125	11	8.1	19	11	9.9	29
30	0.1	200	2060	1440		238	124	9.5	5.8	18	11	21 *	30
31	0.1		2130	1380		231		9.0		18	12		31
MEAN	7.9	154	1640	1580	1466	517	250	16.8	11.2	16.6	20.3	9.1	MEAN
MAX.	61	233	2500	2600	1910	1020	769	76	14	35	120	21	MAX.
MIN.	0.1	0.1	197	874	530	178	121	7.2	5.8	6.9	8.7	4.8	MIN.
AC. FT.	486	9153	100800	97150	81410	31820	14870	1034	667	1021	1251	539	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *
a - SEE (a) BELOW

MEAN
DISCHARGE
470

MAXIMUM				
DISCHARGE	GAGE HT.	MO.	DAY	TIME
2770	72.32a	12	29	0315

MINIMUM				
DISCHARGE	GAGE HT	MO.	DAY	TIME
0.0		11	3	1200

TOTAL
ACRE FEET
34020[illegible]

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D B &M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW20 3S 14E		188.0	12- 8-50	OCT 36-SEP 60		1937		1.76	USGS
			52200	186.29	1-26-69	OCT 61-DATE					

Station located at Highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

a The annual maximum gage height was 72.42 and occurred at 1900 hours on 2-1-71.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	108	99	319 *	2250	1570	993	319	157	91	67 *	64	70	1
2	108 *	99 *	328	2670	2260 *	742	458	118	91	65	65	65	2
3	150	99	323	2670	1800	694	493	112	89 *	67	59	70 *	3
4	143	105	852	2540	1530	687 *	349	105	91	72	61	73	4
5	116	103	2360	2050 *	1650	681	404	97 *	91	70	61	73	5
6	105	105	2670	1030	1680	806	771	95	93	67	112	72	6
7	100	105	2380	984	1670	1000	640 *	97	91	65	72	68	7
8	97	103	1280	968	1660	912	538	112	86	62	65	70	8
9	100	99	784	968	1600	674	496	109	80	62	62	68	9
10	102	201	784	944	1550	674	439	125	84	65	64 *	70	10
11	105	291	728	952	1680	681	303	101	89	73	65	73	11
12	102	299	835	952	1730	756	321	91	88	77	68	77	12
13	97	299	952	2380	946	904	509	93	84	72	64	75	13
14	105	295	1100	2390	661	1090	291	91	80	70	64	64	14
15	161	295	1260	2450	1390	1100	226	86	73	72	65	65	15
16	108	287	1230	1920	1710	784	197	84	73	68	64	67	16
17	102	280 *	2000	1530	1660	721	215	88	75	65	61	68	17
18	97	280	2180	1540	1660	661	340	91	77	65	70	70	18
19	97	280	2420	1540	1590	636	349	89	78	65	73	72	19
20	105	280	2390	1540	1650	367	353	89	80	67	72	72	20
21	105	287	2420	1570	1590	336	265	88	80	65	77	68	21
22	105	287	2310	1590	1440	367	174	89	78	64	84	68	22
23	102	287	2290	2080	1480	340	174	93	78	64	73	68	23
24	100	287	2290	2040	1420	349	165	86	75	64	64	70	24
25	97	311	2480	1710	1390	448	163	109	75	65	59	70	25
26	94	299	2550	1450	1250	540	163	107	78	62	62	72	26
27	92	295	2580	1200	904	517	160	97	78	61	105	73	27
28	92	311	2540	1040	1010	443	163	109	77	61	82	72	28
29	92	332	2490	968		367	163	91	70	62	75	72	29
30	92	323	2040	1360		328	163	89	68	64	75	72	30
31	94		2050	1470		315		93		65	72		31
MEAN	106	237	1717	1637	1505	642	325	99.4	81.4	66.2	70.3	70.2	MEAN
MAX.	161	332	2670	2670	2260	1100	771	157	91	77	112	77	MAX.
MIN.	92	99	319	944	661	315	160	84	68	61	59	64	MIN.
AC. FT.	6492	14110	105600	100700	83570	39470	19370	6111	4842	4072	4322	4179	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN			MAXIMUM					MINIMUM				TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
542	2920	73.23	12	29	0900	58	69.55	8	25	2000	392700

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M D B &M	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	86	15	253	48	26	16	130	96	88	79 *	59	66	1
2	86	15	237 *	47	25	16 *	79	89	83	69	62	79 *	2
3	80	15	407	43	25	16	77	99	87 *	71	52	79	3
4	83	21	192	43	24 *	16	80	91	86	79	49	71	4
5	90 *	35	133	49	24	16	93	107	92	79	59	78	5
6	81	51	157	39	23	17	106	101	97	83	59	80	6
7	94	80	105	34 *	23	17	122 *	93 *	91	78	62	78	7
8	94	74	83	32	22	33	112	113	99	74	65	80	8
9	104	43	69	31	21	56	111	126	93	71	63 *	74	9
10	104	29 *	57	28	21	37	122	95	88	68	56	74	10
11	94	23	59	28	21	57	117	82	84	65	69	72	11
12	90	19	59	30	21	69	105	60	78	65	59	68	12
13	90	16	48	33	21	113	105	69	74	52	53	77	13
14	93	22	40	136	20	104	113	74	82	48	51	77	14
15	97	23	35	448	19	78	122	68	87	55	51	62	15
16	104	21	32	178	19	63	113	78	90	59	74	71	16
17	102	19	30	115	19	49	114	91	93	65	65	76	17
18	96	18	83	92	19	44	158	83	86	65	69	71	18
19	85	16	108	81	19	37	127	71	86	66	76	77	19
20	63	20	311	69	18	47	115	69	76	63	63	76	20
21	43	21	186	57	18	68	112	57	76	60	66	59	21
22	33	17	447	48	18	48	96	63	80	65	63	74	22
23	26	16	269	42	17	79	88	60	72	55	71	86	23
24	22	14	140	38	17	90	88	68	66	52	69	80	24
25	20	19	104	36	17	100	82	77	77	46	78	94	25
26	19	40	86	34	17	169 *	102	72	93	60	79	94	26
27	19	38	77	32	17	163	107	80	90	62	78	92	27
28	16	66	66	30	17	113	97	94	97	66	83	93	28
29	16	334	72	29		95	96	96	87	60	83	86	29
30	16	428 *	65	28		84	101	98	86	62	80	80	30
31	16		53	28		96		90		59	78		31
MEAN	66.5	52.3	131	64.7	20.3	64.7	106	84.2	85.5	64.5	65.9	77.5	MEAN
MAX.	104	428	447	448	26	169	158	126	99	83	83	94	MAX.
MIN.	16	14	30	28	17	16	77	57	66	46	49	59	MIN.
AC. FT.	4090	3110	8063	3979	1127	3979	6327	5177	5086	3969	4054	4610	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
74.0	578	72.89	1	15	0520	14	67.56	11	24	0900	53570

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 39 26	120 55 19	SE 24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles. There are no upstream impairments.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	804105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	329	239	759	2210	1690	1170 *	669	382	280	236	248	251	1
2	346	238	643	2400	1930 *	1100	692	407	268 *	236	255	246 *	2
3	333	238	739	2580	2210	910	746	399	277	229	246	239	3
4	340	266	746 *	2600	1940	849	729	382	282	255	239	239	4
5	353 *	262	1130	2490	1770	828	649	371 *	277	268	253	251	5
6	340	254	2210	1990 *	1850	818	807 *	366	287	246	260 *	246	6
7	340	270	2500	1360	1910	987	1030	347	280	236	287	241	7
8	335	266	2160	1260	1850	1140	976	371	282	234	270	243	8
9	338	256 *	1460	1230	1890	1040	892	450	280	239	268	246	9
10	355	241	1030	1200	1800	864	814	407	260	248	253	239	10
11	353	285	939	1170	1770	857	759	410	265	241	246	241	11
12	333	368	899	1170	1880	881	666	342	270	246	241	234	12
13	321	388	994	1400	1820	1110	676	313	265	251 *	241	227	13
14	329	393	1090	2270	1140	1320	794	305	270	239	251	236	14
15	359	399	1230	2690	965	1500	656	305	246	232	258	229	15
16	426	399	1370	2610	1590	1500	570	292	248	241	260	232	16
17	366	393	1460	2130	1820	1290	570	303	246	236	251	236	17
18	333	388	2020	1840	1800	1180	662	305	246	272	248	246	18
19	314	388	2300	1800	1800	1000	773	300	246	260	258	243	19
20	304	388	2510	1790	1760	860	790	292	258	243	258	243	20
21	288	393	2640	1780	1780	682	780	290	243	227	260	248	21
22	280	396	2630	1810	1740	627	640	297	241	229	277	234	22
23	270	390	2740	1890	1600	617	503	272	253	232	295	239	23
24	266	390	2530	2190	1640	617	464	280	253	239	255	246	24
25	258	418	2490	2140	1590	653	435	282	248	268	241	248	25
26	253	430	2540	1900	1500	950	435	275	251	258	248	265	26
27	251	424	2570	1680	1370	1070	453	275	270	246	270	272	27
28	249	473	2570	1460	1110	983	415	290	260	241	282	265	28
29	245	653	2560	1320		899	410	303	265	239	282	255	29
30	243	797	2410	1280		835	399	290	253	253	277	268	30
31	239		2220	1620		752		290		246	251		31
MEAN	313	369	1810	1847	1697	964	662	329	262	244	259	245	MEAN
MAX.	426	797	2740	2690	2210	1500	1030	450	287	272	295	272	MAX.
MIN.	239	238	643	1170	965	617	399	272	241	227	239	227	MIN.
AC. FT.	19220	21980	111300	113600	94240	59280	39380	20220	15610	15010	15930	14570	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
746	2850	29.60	12	23	0300	213	22.74	7	21	1900	540300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B07[illegible]4[illegible]	SAN JOAQUIN RIVER AT MA[illegible]E ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1080	796	2170	4030	2990 *	1930	1570	971	114[illegible] *	[illegible]4[illegible]	6[illegible]4 E	7[illegible]	1
2	1080	801	2140	4100	3060	1900	1510	107[illegible]	112[illegible]	[illegible]8[illegible] *	64[illegible] E	768 *	2
3	1110	811	2270	4210	3360	1750 *	1490	122[illegible]	1[illegible]	727	632 E	736	3
4	1130	834	2360	4230	3210	1740	144[illegible]	1260	1[illegible]4[illegible]	768	623 E	764	4
5	1180	897	2470	4170	3010	1740	1280	1310	956	837	57[illegible] #	7[illegible]	5
6	1200 *	971 *	3290	3910 *	3000	1630	1250	132[illegible]	882	764	575	759	6
7	1150	1050	3700 *	3310	3020	1680	1530	124[illegible] *	921	727	618	759	7
8	1120	1070	3670	3060	3010	1810	1540 *	1210	921	731	632	74[illegible]	8
9	1070	1060	3110	3000	2970	1750	1490	1180	911	736	632	768	9
10	1110	1050	2500	2950	2960	1540	1450	1160	901	736	566	[illegible]1[illegible]	10
11	1100	1060	2190	2840	2990	1520	1510	1130	891	75[illegible]	553	736	11
12	1110	1150	2220	2700	3150	1550	1440	1100	881	801	536	844	12
12	1100	1150	2380	2690	3230	1800	1310	1070	870	768	536	873 *	12
14	1120	1180	2620	3330	2830	2050	1490	1050	860	727	583	806	14
15	1170	1180	2790	3780	2410	2350	1600	1020	850	736 *	685	745	15
16	1250	1160	2980	3950	2600	2420	1550	991	840	727	690	690	16
17	1180	1180	3060	3600	2900	2240	1700	995	830	727	649	699	17
18	1020	1150	2830	3290	2900	2050	1880	974	820 *	731	588	713	18
19	931	1110	3820	3260	2880	1840	1940 *	952	803	750	605	722	19
30	882	1100	4040	3320	2810	1720	1920	930 *	786	736	658	792	30
21	839	1100	4350	3360	2820	1520	1820	943	768	727	623	792	21
22	825	1100	4480	3380	2780	1470	1550	956	751 *	722	740	722	22
22	830	1100	4720	3390	2690	1380	1300	946	781	727	792	736	22
24	849	1100	4670	3600	2610	1390	1230	991	811	727	754	849	24
25	858	1140	4590	3630	2510	1460	1170	936	841	727	695	854	25
26	834	1190	4600	3470	2370	1950	1080	858	871	722 E	658	873	26
27	830	1180	4570	3230	2180	2210	1060	820	901	717 E	731	907	27
28	825	1250	4480	3010	1980	2180	1050	912	931	704 E	731	897	28
29	849	1740	4410	2810		2070	995	1070	961 *	690 E	796	839	29
30	830	2170	4340	2700		1990	971	1150	903	685 E	787	868	30
21	792		4110	2850		1810		1180		667 E	768		21
MEAN	1008	1128	3417	3392	2830	1823	1437	1062	894	739	655	782	MEAN
MAX.	1250	2170	4720	4230	3360	2420	1940	1320	1140	845	796	907	MAX.
MIN.	792	796	2140	2690	1980	1380	971	820	751	667 E	536	690	MIN.
AC. FT.	61990	67100	210100	208600	157200	112100	85520	65290	53180	45460	40280	46550	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
1593	4767	20.55	12	23	1400	477	13.21	8	12	2300	1153000

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 38 28	121 13 37	SW29 3S 7E	45,550	36.87	2-28-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
								1959		3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	803175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	25	143	1020 *	1790	1690 *	557 *	102 *	56	46	333 *	30	46	1
2	27 *	145 *	1100	1810	1690	539	84	56	41	302	34	41 *	2
3	28	147	850	1790	1680	525	62	58 *	39 *	130	32	37	3
4	26	155	1440	1790	1680	595	61	57	39	213	30	35	4
5	31	153	1940	1780	1680	690	71	111	41	84	31	30	5
6	34	151	1920	1780	1670	664	51	276	42	53	33	28	6
7	32	157	1900	1770 *	1670	557	46	288	129	49	31	48	7
8	29	149	1890	1770	1670	595	40	436	1160	45	35	52	8
9	28	147	420	1760	1660	614	49	619	1550	38	32 *	37	9
10	28	147	674	1750	1660	548	86	711	2150	33	33	31	10
11	41	143	1900	1750	1660	552	78	530	1280	34	38	28	11
12	37	149	1890	1750	1660	466	71	363	1270	33	37	31	12
13	31	145	1890	1800	1660	269	51	308	1470	30	37	30	13
14	31	145	1880	1940	1650	393	50	295	2820	29	37	28	14
15	59	143	1870	1780	1650	444	64	367	2540	30	36	26	15
16	170	145	1880	1760	1640	548	66	1410	2040	30	34	29	16
17	174	145	1870	1750	1640	499	66	1580	1920 *	29	37	23	17
18	200	147	1870	1750	1640	460	55	1560	2750	29	37	25	18
19	262	149	1960	1560	1640	477	65	952	2130	30	37	30	19
20	183	248	1880	1730	1640	566	58	301	1860	31	42	28	20
21	176	507	2020	1730	1630	659	48	221	1680	30	45	27	21
22	176	521	1900	1730	1590	664	67	68	1570	30	43	28	22
23	176	521	1850 *	1730	848	566	252	51	1190	30	41	28	23
24	178	507	1840	1730	587	557	285	46	1140	31	42	28	24
25	176	529	1830	1720	559	471	282	46	1070	30	39	27	25
26	168	579	1820	1710	544	165	239	46	729	28	41	31	26
27	102	638	1820	1710	540	342	64	46	3550	27	39	35	27
28	97	1020	1810	1700	552	356	54	56	2400	28	42	49	28
29	94	1230	1800	1700		338	60	571	457	33	45	87	29
30	94	1010	1800	1700		360	60	377	652	29	47	100	30
31	132		1790	1700		255		64		29	49		31
MEAN	98.2	337	1688	1749	1431	493	89.6	383	1325	61.6	37.6	36.8	MEAN
MAX.	262	1230	2020	1940	1690	690	285	1580	3550	333	49	100	MAX.
MIN.	25	143	420	1560	540	165	40	46	39	27	30	23	MIN.
AC. FT.	6040	20060	103800	107500	79500	30330	5330	23570	78850	3788	2313	2188	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN		MAXIMUM					MINIMUM				TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
640	5570	10.23	6	27	1630	23	1.33	9	17	0000	463300

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio telemeter.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	311	227	1250	1700	1640 *	673 *	597 *	383	585	1010 *	276	277	1
2	340 *	244 *	1170	1710	1640	663	553	441	495 *	788	297	260 *	2
3	327	248	1280	1710	1640	654	504	448 *	453	708	284	263	3
4	319	263	1020	1700 *	1630	667	455	436	415	605	253	253	4
5	322	277	1270	1690	1640	716	446	426	438	628	239	298	5
6	341	286	1640	1690	1630	775	392	450	507	497	250	309	6
7	315	291	1680 *	1690	1630	768	391	522	470	423	256	319	7
8	327	329	1690	1690	1620	748	376	656	415	425	248	264	8
9	332	290	1650	1680	1620	783	391	837	988	416	250 *	241	9
10	314	267	902	1670	1620	727	375	842	1430	380	260	228	10
11	319	260	800	1670	1620	691	425	826	1780	361	267	260	11
12	319	257	1500	1660	1610	669	426	781	1480	359	263	281	12
13	356	255	1650	1670	1610	725	408	687	1430	353	253	264	13
14	361	253	1680	1710	1610	585	441	609	1600	327	309	222	14
15	392	252	1690	1780	1600	595	392	537	2340	327	340	211	15
16	484	251	1700	1710	1600	599	433	615	2420	292	286	228	16
17	531	250	1720	1680	1600	714	465	1160	2130	284	286	222	17
18	416	250	1720	1680	1590	719	506	1430	2010 *	358	277	232	18
19	373	250	1740	1670	1590	757	518	1460	2370	324	237	223	19
20	391	250	1810	1580	1590	755	513	1070	2170	291	255	221	20
21	334	269	1760	1640	1580	721	484	755	1990	255	260	234	21
22	312	415	1850	1650	1580	823	394	632	1750	247	284	264	22
23	299	493	1800	1650	1520	810	399	495	1660	237	349	347	23
24	294	520	1740	1650	1090	806	490	436	1370	260	349	334	24
25	288	540	1720	1650	851	781	572	402	1320	279	287	340	25
26	283	576	1720	1650	766	904	578	386	1250	340	280	378	26
27	279	619	1720	1640	719	832	529	372	1090	315	244	463	27
28	255	638	1720	1640	696	844	436	448	2490	315	263	520	28
29	233	1100	1710	1650		862	384	481	2430 *	298	297	470	29
30	224	1530	1710	1640		761	387	682	1020	263	318	479	30
31	221		1710	1640		736		764		248	306		31
MEAN	329	398	1572	1672	1469	737	455	660	1413	394	278	297	MEAN
MAX	531	1530	1850	1780	1640	904	597	1460	2490	1010	349	520	MAX.
MIN.	221	227	800	1580	696	585	375	372	415	237	237	211	MIN.
AC. FT.	20260	23700	96640	102800	81580	45350	27090	40600	84070	24220	17090	17660	AC. FT.

E – ESTIMATED
NR – NO RECORD
* – DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# – E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
803	3410	38.85	6	29	0140	198	27.13	9	15	1900	581100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R M D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963	1969	0.37	USC&GS
								1970		0.00	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1420 *	1120	3580 *	5880	4730 *	2620 *	2270 *	1390	1910 *	2040	780	1000 *	1
2	1530	1140 *	3430	5920	4740	2570	2130	1560	1760	1700	870	1010	2
3	1550	1150	3590	6080	5100	2420	2050	1760 *	1650	1530	870 *	980	3
4	1590	1190	3590	6110	4980	2380	2000	1830	1600	1490	790	986	4
5	1600	1270	3640	6040 *	4710	2400	1820	1860	1500	1530	775	1020	5
6	1640	1360	4620	5780	4670	2380	1820	1900	1440	1370 *	770	1010	6
7	1570	1470	5230	5100	4700	2390	1930	1860	1480	1180	830	1030	7
8	1530	1530	5270	4780	4700	2470	1980	1960	1380	1140	845	986	8
9	1500	1520	4730	4710	4580	2440	1940	2360	1550	1090	850	997	9
10	1540	1480	3830	4660	4600	2280	1950	2620	2030	1050	795	930	10
11	1570	1470	3260	4560	4620	2280	2050	2430	2470	1080	757	940	11
12	1560	1550	3590	4410	4740	2300	2000	2240	2450	1110	762	1110	12
13	1550	1560	3900	4380	4690	2470	1740	1980	2350	1050	734	1150	13
14	1590	1590	4150	5070	4290	2690	1980	1860	2330	940	795	1040	14
15	1650	1600	4350	5660	4010	3020	2150	1650	2760	900	950	935	15
16	1820	1570	4550	5900	4140	3140	2060	1590	3060	865 *	1010	890	16
17	1860	1600	4660	5530	4630	3060	2240	1840	2890	860	945	890	17
18	1670	1570	5060	5150	4670	2860	2440	2260	2700	945	875	945	18
19	1530	1540	5470	5080	4670	2630	2570	2330	2860	1040	870	986	19
20	1440	1520	5760	5140	4580	2500	2500	2270	3030	930	890	1050	20
21	1370	1520	6100	5160	4560	2330	2440	1840	2960	830	830	1020	21
22	1300	1620	6330	5220	4510	2320	2110	1700	2590	762	930	1050	22
23	1280	1750	6630	5230	4410	2290	1700	1530	2510	757	1070	1120	23
24	1280	1800	6610	5460	3980	2290	1660	1520	2360	748	1080	1260	24
25	1290	1860	6500	5560	3830	2310	1720	1390	2210	805	970	1300	25
26	1250	1950	6510	5370	3470	2880	1680	1300	2400	935	870	1350	26
27	1240	1990	6500	5030	2990	3220	1580	1230	2280	905	945	1440	27
28	1200	2040	6400	4780	2660	3100	1550	1310	2860	905	925	1510	28
29	1200	2750	6310	4560		2970	1410	1590	3900	875	1060	1480	29
30	1190	3570	6240	4440		2760	1370	1790	2390	855	1120	1500	30
31	1140		5970	4560		2500		2060		825	1080		31
MEAN	1466	1655	5044	5204	4391	2589	1961	1833	2322	1066	892	1097	MEAN
MAX.	1860	3570	6630	6110	5100	3220	2570	2620	3900	2040	1120	1510	MAX.
MIN.	1140	1120	3260	4380	2660	2280	1370	1230	1380	748	734	890	MIN.
AC. FT.	90150	98480	310100	320000	243900	159200	116700	112700	138200	65540	54830	65290	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
2452	6710	16.69	12	23	1530	734	9.11	8	13	DAILY MEAN	1775000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF. DATUM
37 40 34	121 15 55		79000	27.75	12-9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12-9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15						NO FLOW							15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX.													MAX.
MIN.													MIN.
AC. FT.													AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
36 10	119 50	NW20 20S 20E	4102a		6-12-69	1937-DATE					

Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.

a Maximum discharge since 1950.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C02602	CROSS CREEK BELOW LAKELAND CANAL =2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15						NO FLOW							15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
			OF RECORD					PERIOD			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	FROM	TO	ZERO ON GAGE	REF DATUM
36 12 42	119 34 05	NE 10 20S 22E				1921-DATE					

Station located downstream from Cross Creek Weir, 4 miles east of Guernsey. Tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cottonwood Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Corcoran Irrigation District.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03913	FRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4	0			0	0	9	6	0	9	8	9	1
2	4	0			0	0	9	6	0	12	8	9	2
2	4	0			0	0	9	5	4	13	8	9	3
4	4	0			5	0	9	4	5	12	8	6	4
5	4	0			6	0	7	3	5	12	7	4	5
6	4	0			5	0	6	3	5	12	6	4	6
7	4	0			5	3	6	3	5	13	5	4	7
8	1	0			5	4	6	1	2	10	6	4	8
9	0	0			5	5	6	0	0	9	6	4	9
10	0	0			5	5	4	0	3	9	6	1	10
11	0	4			5	5	4	0	4	9	6	0	11
12	0	1	N	N	5	5	4	0	5	10	6	0	12
13	3	0	O	O	5	4	3	0	6	11	9	0	13
14	4	0			5	3	3	2	6	9	9	0	14
15	1	0			5	3	3	3	6	6	9	3	15
16	0	0	F	F	5	3	3	3	6	4	9	4	16
17	0	0	L	L	5	5	3	2	5	4	11	4	17
18	0	0	O	O	5	7	3	2	3	5	13	4	18
19	0	0	W	W	5	7	3	2	3	7	13	4	19
30	0	0			5	8	3	2	3	10	13	4	20
21	3	0			5	9	3	2	3	12	11	4	21
22	4	0			5	9	3	2	3	13	10	4	22
23	1	0			1	9	3	3	5	15	10	4	23
24	0	0			0	7	3	3	6	16	8	4	24
25	0	0			0	6	3	3	7	16	6	4	25
26	0	0			0	5	3	4	7	15	6	1	26
27	0	0			0	4	3	5	6	11	7	0	27
28	0	0			0	4	3	6	5	10	8	0	28
29	0	0				5	3	4	5	8	8	0	29
30	0	0				8	3	4	5	8	9	0	30
31	0					9		1		8	9		31
MEAN	1.5	0.2			3.5	4.6	4.4	2.7	4.3	10.3	8.3	3.3	MEAN
MAX.	4	4			6	9	9	6	7	16	13	9	MAX.
MIN.	0	0			0	0	3	0	0	4	5	0	MIN.
AC. FT.	89	10			192	282	264	167	254	631	512	194	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
3.6	17	0.49	7	24	0800	0					2595

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 05 00	119 04 50	SW20 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03923	FRIANT-KERN CANAL DELIVERY TO TULE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					114								1
2					171								3
3					182								3
4					175								4
5					139								5
6					120								6
7					120								7
8					124								8
9					126								9
10					139								10
11					147								11
12	N	N	N	N	41	N	N	N	N	N	N	N	12
13	O	O	O	O	0	O	O	O	O	O	O	O	13
14					0								14
15					0								15
16	F	F	F	F	0	F	F	F	F	F	F	F	16
17	L	L	L	L	0	L	L	L	L	L	L	L	17
18	O	O	O	O	98	O	O	O	O	O	O	O	18
19	W	W	W	W	130	W	W	W	W	W	W	W	19
20					130								20
21					130								21
22					130								22
23					130								23
24					126								24
25					109								25
26					34								26
27					0								27
28					0								28
29													29
30													30
31													31
MEAN					93.4								MEAN
MAX.					182								MAX.
MIN.					0								MIN.
AC. FT.					5187								AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
7.2	182	2.03	2	2	0900	0		10	1	0000	5187

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 25	119 05 15	NW29 21S 27E				MAY 50-DATE					

These flows are deliveries from Friant-Kern Canal into Tule River. Point of delivery is located on the Tule River approximately 4 miles west of Porterville where Friant-Kern Canal crosses the Tule River. Records furnished by U. S. Bureau of Reclamation.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	115.0	191.0	75.7	5.8							1
2		0	195.0	200.0	157.0	0							2
3		0	222.0*	93.0	174.0*	0							3
4		0	182.0	0	174.0	0							4
5		0	169.0	0	136.0	0							5
6		0	169.0	146.6*	111.0	0							6
7		0	157.0 *	240.0	115.0	0							7
8		0	87.0	253.0	123.0*	0							8
9		0	0.5	249.0	123.0	0							9
10		0	0	240.0	136.0	0							10
11		0	0	144.0	152.0	0							11
12	N	0	0	9.0*	53.0	0	N	N	N	N	N	N	12
13	O	0	0	80.0	0	0	O	O	O	O	O	O	13
14		0	0	132.0	0	0							14
15		0	109.2	144.0	0	0							15
16	F	0	182.0	144.0	0	0	F	F	F	F	F	F	16
17	L	0	191.0	140.0	0	0	L	L	L	L	L	L	17
18	O	0	200.0*	132.0*	81.7	0	O	O	O	O	O	O	18
19	W	0	209.0	152.0	144.0	0	W	W	W	W	W	W	19
20		0	195.0	187.0	148.0	0							20
21		0	195.0	204.0	136.0*	0							21
22		0	191.0*	128.0	128.0	0							22
23		0	222.0	2.8	128.0	0							23
24		0	8.2	0	128.0	0							24
25		0	0	0	111.0	0							25
26		0	0	0	35.8	0							26
27		0	0	0	0	0							27
28		0	1.4	0	3.6	0							28
29		0	165.0	0		0							29
30		5.8	191.0	0		0							30
31			191.0	0		0							31
MEAN		0.2	114.4	103.6	91.9	0.2							MEAN
MAX.		5.8	222.0	253.0	174.0	5.8							MAX.
MIN.		0	0	0	0	0							MIN.
AC. FT.		12	7036	6370	5105	12							AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
25.6	267	2.20	1	8		0.0		10	1	0000	18535

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 04 40	119 06 22	NW 30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957	1959	0.00	LOCAL
								1959		-3.48	LOCAL

Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03970	CAMPBELL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.5	13.5			0	15.5*	0	9.0	12.2*	11.3	11.3	9.6	1
2	14.5	13.2*			0	15.5	0	11.0	13.2	11.3	11.6*	9.6	2
3	13.2	13.5			0	15.5	0	8.4*	13.2	11.3	13.9	9.6	3
4	12.5	13.5			0	15.5	0	7.8	13.2	11.3	15.5	9.6	4
5	11.9	10.7			0	14.8	0	8.1	12.9	11.3	15.5	9.6	5
6	11.3	6.8			0	9.6	0	10.7	12.5	11.0*	14.8	9.6	6
7	11.3	7.2			0	6.0	0	12.2	14.2*	10.7	14.2	11.9*	7
8	10.7	7.2			0	6.5*	0	12.2	14.2	10.7	13.2	12.9	8
9	10.4	7.2*			0	6.8	9.4	12.2	10.4	11.0	13.9	13.2	9
10	10.7	7.5			0	6.8	15.2	12.9*	6.8	11.3	14.8	12.9	10
11	11.3	7.2			0	6.8	15.2	12.5	7.2	11.6	14.5	13.2	11
12	11.0*	7.5	N	N	0	6.8	16.5	12.9	7.2	11.9*	14.5	13.5	12
13	11.6	7.5	O	O	0	6.8	16.2*	14.5	7.2	11.6	14.5	13.2*	13
14	12.5	7.5			0	6.8	15.5	16.5	10.7*	11.6	14.5	12.9	14
15	12.9	7.5			0	6.0*	15.5	15.8	11.6	11.9	14.5	12.9	15
16	13.2	7.2*	F	F	0	5.4	14.5	16.2	11.9	11.9	14.5*	12.9	16
17	12.2	6.2	L	L	0	5.2	12.9	15.8*	11.9	11.9	14.2	13.5	17
18	12.2	6.5	O	O	9.1	5.0	12.2	15.8	11.9	11.6	13.9	14.5	18
19	11.9	6.5	W	W	15.2*	2.7	11.9*	15.8	11.6	11.3*	13.9	15.2	19
20	12.9	7.2			14.8	0	12.5	15.8	11.3	11.0	13.5	12.2*	20
21	13.2	7.5			14.8	0	11.9	16.5	10.7*	11.0	14.5	11.0	21
22	12.5	6.8			14.8*	0	11.6	16.5	11.3	11.0	14.5	13.2	22
23	12.5	6.8*			14.8	0	11.6	15.8	12.2	11.3	15.5*	15.5	23
24	13.9	6.8			14.8	0	11.9	18.6*	12.2	11.3	15.8	15.2	24
25	14.2	7.2			14.5	0	11.6	19.6	12.2	11.3	16.2	15.5	25
26	13.9	7.2			14.5	0	11.0*	20.0	11.6	11.0*	15.8	15.5	26
27	13.5*	2.7			14.8	0	11.0	7.1	10.4	10.7	13.2	15.2	27
28	13.5	0			14.8	0	11.9	0	10.4*	11.0	13.2	15.2	28
29	13.9	0				0	11.0	0	11.3	11.6	13.2	14.8	29
30	13.5	0				0	8.7*	0	11.3	11.6	13.2	14.5	30
31	13.2					0		7.4		11.3	11.0*		31
MEAN	12.4	7.2			5.6	5.3	9.3	12.2	11.3	11.3	14.1	12.9	MEAN
MAX.	14.5	13.5			15.2	15.5	16.5	20.0	14.2	11.9	16.2	15.5	MAX.
MIN.	7.5	0			0	0	0	0	6.8	10.7	11.0	9.6	MIN.
AC. FT.	761	429			311	325	555	749	672	695	867	770	AC. FT.

E — ESTIMATED

NR — NO RECORD

* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW

# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
8.5											6134

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 02 48	118 56 54	NW 4 22S 28E				AUG 42-DATE			OCT 62	0.00	LOCAL
								OCT 62		-2.00	LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,600 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	0	64.0	0		0	0	0		0	0	0	1
2	0	0	96.2	0.6		0	0	0		0	0	0	2
3	0	0	102.8	0.6		0	0	0		0	0	0	3
4	0	0	96.2	0		0	0	0		0	1.8	0	4
5	0	0	29.4	0		0	0	0		0	29.4*	0	5
6	0	0	0.2	0		0	0	0		8.3	35.4	0	6
7	0	0	0	0		0	0	0		37.0*	36.2	0	7
8	0	0	0	0		0	0	0		44.8	37.0	0	8
9	0	0	0	0		0	0	0		42.8	38.3*	0	9
10	0	0	0	0		0	0	0		37.0	33.4	0	10
11	0	0	0	0		0	0	0		32.8	28.0	0	11
12	0	0	0	0	N	0.2	0	0	N	33.4*	24.0	0	12
13	0	0	0	0.1	O	11.8	0	0	O	33.4	19.4	0.8	13
14	0	0	0	0		32.2	0	0		35.4	18.6	0	14
15	0	0	0	0		32.2*	0	0		36.2	17.8	0	15
16	0	0	0	0	F	24.8	0	0	F	34.8	16.8*	0	16
17	2.4	0	0.2	0	L	18.6	0.7	0	L	35.4	9.8	0	17
18	18.6	0	0	0	O	17.8	0.2	0	O	34.0	0	0	18
19	22.8	0	0	40.3	W	17.8	0	0	W	29.4*	0	0	19
20	24.0	0	0	82.6*		18.6	0	0		27.0	0	24.4*	20
21	24.0	0	0.9	47.2		19.4	0	0		27.0	0	32.2	21
22	22.8	0	0.9	20.0		20.0*	0	0		27.0	4.5	30.4	22
23	23.4	0	0.1	0		15.8	0	0		10.6	21.0	25.8	23
24	7.0	0	0	0		0.8	0	0		0	22.8*	25.8	24
25	0	0.9	0	0		0	0	0		0	18.2	26.2	25
26	0	0.9	0	0		0	0	0		0	21.9*	26.2	26
27	0	0	0	0		0	0	0.8		0	23.4	27.0	27
28	0	0	0	0		0	0	0		0	22.4	27.0	28
29	0	1.0	0	0		0	0	0		0	22.8	27.0	29
30	0	21.0	0	0		0	0	0		0	8.4	27.0	30
31	0		0	0		0		0		0	0		31
MEAN	4.7	0.8	12.6	6.2		7.4	0.0	0.0		18.3	16.5	10.0	MEAN
MAX	24.0	21.0	102.8	82.6		32.2	0.7	0.8		44.8	38.3	32.2	MAX.
MIN.	0	0	0	0		0	0	0		0	0	0	MIN.
AC. FT.	288	47	775	380		456	2	2		1123	1014	595	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
6.5											4682

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957		0.00	LOCAL

Station located at "B" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03984	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	0	0.4			0	0	0	0	0	0	1.8	1
2	0	0	1.3			0	0	0	0	0	0	2.6	2
2	0	0	1.4			0	0	0	0	0	0	0	2
4	0	0	1.4			0	0	0	1.3	0	0	0	4
5	0	0	0.8			0	0	0	4.5	0	3.6	0	5
6	0	0	0			0	0	0	3.6	0	10.2*	0	6
7	0	0	0			0	0	0	3.8	0	11.3	0	7
8	0	0	0			0	0	0	3.6	5.5*	11.9	0	8
9	0	0	0			0	0	0	5.6	7.6	12.0*	0	9
10	0	0	0			0	0	0	2.6	7.2	11.6	0	10
11	0	0	0			0	0	0	0	7.2	10.9	0	11
12	0	0	0	N	N	0	0	0	0	8.7	10.2	0	12
12	0	0	0	O	O	0	0	0	0	9.8	8.2	0	13
14	0	0	0			6.4	0	0	0	10.2	7.0	0	14
15	0	0	0			9.0*	0	0	0	10.5	6.3	0	15
16	0	0	0	F	F	7.8	0	0	1.7	10.5	6.5*	0	16
17	0	0	0	L	L	7.2	0	0	5.0	10.3	4.7	0	17
18	0	0	0	O	O	7.0	0	0	5.3	9.4	2.5	0	18
19	2.3	0	0	W	W	6.3	0	0	5.2	9.9*	2.7	0	19
20	5.0	0	0			6.2	0	0	5.2	10.4	1.6	1.7	20
21	5.3	0	0.2			7.0	0	0	5.6	10.4	0	7.9*	21
22	5.3	0	0			6.7*	0.6	0	5.5	10.4	0	8.6	22
23	5.3	0	0			6.1	3.5	0	5.0	7.4	5.3	7.6	23
24	3.4	0	0			1.1	3.5	0	5.2	0.1	8.8*	7.2	24
25	0	0.2	0			0	4.1	0	0	0	5.8	7.5	25
26	0	0.1	0			0	3.6	0	0	0	8.0*	7.9	26
27	0	0	0			0	3.6	0.3	0	0	8.8	8.0	27
28	0	0	0			0	3.5	0	0	0	8.8	8.5	28
29	0	0.2	0			1.6	3.0	0	0	0	9.1	8.7*	29
30	0	0	0			4.0	1.7	0	0	0	6.6	8.8	30
21	0		0			2.4		0		0	0.2		31
MEAN	0.9	0.0	0.2			2.5	0.9	0.0	2.2	4.7	5.9	2.9	MEAN
MAX.	5.3	0.2	1.4			9.0	4.1	0.3	5.6	10.5	12.0	8.8	MAX.
MIN.	0	0	0			0	0	0	0	0	0	0	MIN.
AC. FT.	53	1	11			156	54	1	132	289	362	172	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MAXIMUM GAGE HT	MAXIMUM MO.	MAXIMUM DAY	MAXIMUM TIME	MINIMUM DISCHARGE	MINIMUM GAGE HT.	MINIMUM MO	MINIMUM DAY	MINIMUM TIME	TOTAL ACRE FEET
1.7											1231

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 04 06	119 01 06	SE 26 21S 27E				JAN 43-DATE		1943		0.00	LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 150 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1					0	5.6*		0	3.8*	0	5.9	5.7	1
2					0	5.4		0	4.0	0	6.1*	5.7	2
3					0	5.4		0	4.0	0	6.2	5.8	3
4					0	5.3		0	4.0	0	6.2	2.1	4
5					0	5.2		0	4.0	0	6.1	0	5
6					0	3.0		0	4.4	0	6.1	0	6
7					0	5.3		0	5.0	3.3	5.3	0	7
8					0	4.7*		0	5.0	5.9*	4.8	0	8
9					0	3.4		0	5.0	5.7	4.7*	0	9
10					0	3.2		0	4.9	5.2	4.7	0	10
11					0	3.2		0	4.8	5.3	4.6	0	11
12	N	N	N	N	0	3.2	N	0	4.8	5.3*	4.7*	0	12
13	O	O	O	O	0	3.0	O	1.0*	5.0	5.3	4.8	0	13
14					0	2.9		2.7	2.3*	6.4	4.7	0	14
15					0	2.6*		2.8	0.3	6.4	4.5	0	15
16	F	F	F	F	0	2.4	F	2.9	0.2	6.2	4.4*	0	16
17	L	L	L	L	0	2.2	L	3.2*	0.2	6.2	4.4	0	17
18	O	O	O	O	2.6	2.2	O	3.5	0.1	6.2	4.2	0	18
19	W	W	W	W	5.0*	1.4	W	3.6	0.1	6.4*	4.1	0	19
20					4.8	0.4		3.6	0.2	6.4	4.1	0	20
21					5.0	0.3		3.6	0	6.2	4.1	0	21
22					5.0*	0.2		3.8	0	6.1	4.0	0	22
23					5.3	0.1		3.8	0	6.1	3.9*	0	23
24					5.3	0		4.5*	0	5.9	4.1	0	24
25					5.2	0		3.8	0	5.9	4.1	0	25
26					5.2	0		4.5	0	6.1*	4.1	0	26
27					5.4	0		4.7	0	6.2	3.6	0	27
28					5.3	0		4.4	0.1	6.2	3.7	0	28
29						0		4.1	0	6.2	3.5	0	29
30						0		4.1	0	6.1	3.9*	0	30
31								3.9		6.1	5.6		31
MEAN					1.9	2.3		2.2	2.1	4.8	4.7	0.6	MEAN
MAX.					5.4	5.6		4.7	5.0	6.4	6.2	5.8	MAX.
MIN.					0	0		0	0	0	3.5	0	MIN.
AC. FT.					107	140		136	123	292	288	38	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
1.6											1124

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE		1948		0.00	LOCAL

Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03960	POPLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.4	0.2	51.0	47.6	0.3	0.6	0.1	1.1	0.9	48.6	2.9	0.4	1
2	8.3	0.1	62.7	44.2	0.3	0.6	0.2	1.1	0	52.8	0.3	0.4	2
3	11.4	0	65.4*	34.8	0.3	0.6	0.3	1.1	0	50.5	3.6	0.4	3
4	11.8	0	62.7	13.2*	0.3	0.6	0.3	1.2	0	48.6	15.7	0.5	4
5	11.6	0	61.3	14.6	0.3	1.8	0.3	1.2	0	19.2	23.5*	0.6	5
6	11.4	0	61.3	51.0	0.3	1.4	0.1	1.3	0	0.3	22.6	0.6	6
7	9.4	0	61.8*	52.8	0.3	3.4	0.1	1.3	0	22.0	21.5	0.4	7
8	5.1	0	17.1	52.8	0.3	22.2 *	0.2	1.3	0	30.7	21.5	0.3	8
9	2.5	0	0.1	52.4	0.3	31.4	0.3	1.2	0	0.6	21.6*	0.1	9
10	2.5	0	0	52.4	0.4	29.0	4.3	1.5	0	0.3	23.2	0	10
11	2.8	0	0	21.3*	0.4	33.9	10.8	2.6	0	0.1	26.2	0.2	11
12	0.6	0	0	0	0.4	36.5	39.1*	0.2	0	17.4	25.6	0.3	12
13	0	0	0	0	0.4	37.8	49.5	0	0	26.6*	23.5	0.1	13
14	0.6	0	22.0	0	0.4	35.2	59.4	0	40.5	26.2	21.3	0	14
15	0.5	0	53.4	0.3	0.4	9.0*	58.4	0	47.0*	26.6	18.1	0	15
16	0.6	0	54.0	0.4	0.3	0.3	57.0*	0.1	49.0	26.6	18.4*	0	16
17	0.7	0	51.0	0.4	0.3	0.2	45.1	0.1	50.0	22.9	21.0	0	17
18	0.7	0	50.0*	0.4	0.3	0.1	37.8	0	47.0*	20.7	9.4	0	18
19	0.6	0	50.0	0.4	0.4	0.1	14.2*	0	47.0	19.8*	0.7	0	19
20	0.3	0	50.0	32.4	0.4	0.1	1.6	0	47.6	20.4	0.5	0	20
21	0.4	0	50.0	52.0*	0.4	0	1.7	0	47.0*	20.4	0.4	0	21
22	0.4	0	50.5*	46.1	0.4	0	1.2	0	20.9	23.2	0.4	0	22
23	0.1	0	45.0	7.7	0.4	0	0.5	0	0.3	26.6	0.4	0	23
24	0	0	17.2	0.5	0.5	0	0.4	37.4	2.5	28.6	0.4	0	24
25	0.2	0	9.4	0.4	0.5	0	0.5	39.6	3.9	28.6	0.4	0	25
26	0.3	0	7.6	0.4	0.5	0	0.7	40.6*	0.2	30.6*	0.4*	0	26
27	0	0	6.6	0.4	0.5	0	0.8	37.0	0.3	28.0	0.3	0	27
28	0	0.2	20.4	0.4	0.6	0.6	1.0	24.1	31.8*	26.2	0.4	0	28
29	0	0.3	50.0*	0.4		1.1	1.1	18.1	48.0	25.8	0.5	0	29
30	0	28.2	50.0	0.4		0.1	1.1	17.8	48.6	24.5	0.4	0	30
31	0		50.0	0.3		0		10.6		13.7	0.4		31
MEAN	2.8	1.0	36.6	18.7	0.4	8.0	12.9	7.6	17.8	24.4	10.5	0.1	MEAN
MAX.	11.8	28.2	65.4	52.8	0.6	37.8	59.4	40.6	50.0	52.8	26.2	0.6	MAX.
MIN.	0	0	0	0	0	0	0.1	0	0	0.1	0.3	0	MIN.
AC. FT.	173	57	2248	1151	21	489	770	477	1056	1502	646	9	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
11.9											8599

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
36 03 18	119 00 54	SW36 21S 27E				APR 42-DATE		1942		0.00	LOCAL

Station located 1.0 mile south of Porterville approximately 4,750 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03925	HUBBS-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0					0	3.0	0	0	6.5*	5.9	2.4	1
2	0					0	5.0	2.0	0	5.9	0.6	0	2
3	0					0	6.4	6.0	0	5.6	3.2	0	3
4	0					0	6.2	8.8*	0	5.5	6.7*	0	4
5	0					0	6.1*	8.4	0	3.3	6.8	0	5
6	0					0	6.5	4.0	0	1.0	6.8	0	6
7	0					0	7.4	0	4.7*	0.9	5.9	0	7
8	0					0.8	7.5	0	7.7*	4.3	5.7	0	8
9	0					6.6	7.6	0	7.9	5.3*	6.7*	2.2*	9
10	0					8.7*	5.8	0	7.9	5.2	7.2	3.3	10
11	0					9.6	0	0	6.4	4.0	4.5	2.8	11
12	0	N	N	N	N	10.6	0	0	5.6	3.7*	0	3.1	12
13	0	O	O	O	O	9.6	0	0	5.5	5.1	0	3.2*	13
14	0					8.4	0	0	5.2*	5.7	0	2.5	14
15	0					9.6*	0	0	5.9	5.2	0	2.1	15
16	0	F	F	F	F	9.9	0	0	6.1	4.6	4.1	0.5	16
17	0	L	L	L	L	3.9	0	0	5.8	4.5	7.5*	0.6	17
18	0	O	O	O	O	0	0	0	7.6	4.6	7.0	0	18
19	1.2	W	W	W	W	0	0	0	7.4	5.1*	6.8	0.4	19
20	1.7					0	0	0	7.4	5.8	6.8	0.6*	20
21	0.6					0	0	0	7.2*	6.0	8.3	0.7	21
22	0					0	0	0	7.8	6.0	8.3	0.6	22
23	0					0	0	0	7.0	5.9	4.5*	0.9	23
24	0					0	0	0	5.6	5.8	1.3	1.2	24
25	0					0	0	0	3.6	5.7	3.9*	1.7	25
26	0					0	0	0.7	2.9	5.7	5.2	2.5	26
27	0					0	0	0.6	0.4	7.4*	5.5	1.6	27
28	0					0	0	0	0	8.7*	6.0	0.2	28
29	0					0	0	0	0	9.4	6.0	0.2*	29
30	0					0	0	0	4.9	9.0	5.8*	0.3	30
31	0					2.3		0		9.1	5.0		31
MEAN	0.1					2.6	2.0	1.0	4.4	5.5	4.9	1.1	MEAN
MAX.	1.7					10.6	7.6	8.8	7.9	9.4	8.3	3.3	MAX.
MIN	0					0	0	0	0	0.9	0	0	MIN.
AC. FT.	7					159	122	60	259	338	301	67	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO	DAY	TIME	ACRE FEET
1.8											1313

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M.D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C03948	WOODS-CENTRAL DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	29.4	46.1					0	162.0	188.0	103.0	1
2		0	53.6	46.7					0	168.0	181.0*	107.0*	2
3		0	54.2*	28.6					0	163.0	177.0	101.0	3
4		0	47.2	0.2					0	169.0	178.0	94.8	4
5		0	45.1	0					0	175.0	179.0	109.2	5
6		0	50.9	32.7					0	184.0*	175.0	116.0	6
7		0	52.6*	44.0*					0	164.0	167.0	84.3	7
8		0	34.8	45.6					0	151.0	170.0	14.6	8
9		0	3.3	44.0					0	177.0	181.0*	0	9
10		0	0	43.0					0	182.0	180.0	0	10
11		0	0	25.4*					0	181.0	176.0	0	11
12	N	0	0	0.6	N	N	N	N	0	174.0*	166.0*	0	12
13	O	0	0	15.2	O	O	O	O	0	157.0	171.0	0	13
14		0	0	47.7					0	160.0	164.0	0	14
15		0	38.1	42.5					0	164.0	158.0	0	15
16	F	0	47.2	42.0	F	F	F	F	0	158.0	154.0*	0	16
17	L	0	42.5	42.0	L	L	L	L	0	161.0	146.0	0	17
18	O	0	40.0*	42.5*	O	O	O	O	0	160.0	138.0	0	18
19	W	0	40.5	41.5	W	W	W	W	0	161.0*	134.0	0	19
20		0	39.5	47.2					0	163.0	126.0	0	20
21		0	41.0	54.7					0	162.0	122.0	0	21
22		0	43.0*	40.0					0	159.0	126.0	0	22
23		0	46.7	1.0					0	154.0	132.0*	0	23
24		0	2.0	0					0	149.0	156.0	0	24
25		0	0	0					0	154.0	177.0*	0	25
26		0	0	0					0	164.0*	171.0	0	26
27		0	0	0					0	181.0	98.6	0	27
28		0	4.0	0					16.1	186.0	64.1*	0	28
29		0	48.3*	0					121.0*	185.0	62.2	0	29
30		6.5	46.1	0					155.0	187.0	64.1*	0	30
31			46.1	0						180.0	90.5*		31
MEAN		0.2	28.9	24.9					9.7	167.6	147.5	24.3	MEAN
MAX.		6.5	54.2	54.7					155	187	188	116	MAX.
MIN.		0	0	0					0	149	62.2	0	MIN.
AC. FT		13	1777	1534					579	10304	9070	1448	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO.	DAY	TIME	DISCHARGE	GAGE HT	MO.	DAY	TIME	ACRE FEET
34.2											24725

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T. & R M D B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
36 04 18	119 05 48	SE30 21S 27E				DEC 42-DATE		1942		0.00	LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch approximately 100 feet downstream from station.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	395	308	418	336	564	882	591	453	447	1372	1353	539	1
2	391	298	378	325	556	879	528	461	439	1320	1385	514	2
3	386	339	349	331	582	868	533	505	452	1277	1426	467	3
4	388	344	402	327	604	881	564	531	479	1251	1435	434	4
5	378	350	361	324	601	874	583	549	502	1301	1370	410	5
6	388	353	126	325	572	846	619	568	570	1351	1289	413	6
7	421	332	94	331	566	824	601	548	609	1367	1216	409	7
8	440	327	77	382	594	918	603	472	624	1334	1218	401	8
9	439	338	53	337	598	977	564	443	657	1338	1239	392	9
10	388	247	31	342	612	993	527	459	710	1260	1267	396	10
11	287	236	26	337	604	985	639	502	773	1240	1297	400	11
12	302	214	36	344	611	971	665	451	817	1233	1283	393	12
13	310	210	98	348	622	947	622	444	904	1254	1180	404	13
14	346	205	176	362	631	872	561	446	922	1320	1061	423	14
15	345	201	254	352	643	902	499	442	952	1387	1079	461	15
16	333	195	259	343	686	909	460	489	1013	1361	1166	486	16
17	290	216	277	336	698	783	503	474	1084	1305	1163	481	17
18	304	272	309	384	682	719	471	487	1111	1328	1154	420	18
19	332	261	315	353	671	664	444	494	1119	1384	1146	409	19
20	334	251	323	334	597	652	439	527	1214	1463	1065	401	20
21	339	247	327	356	626	691	448	551	1224	1488	978	390	21
22	342	244	320	429	652	721	442	592	1237	1464	897	370	22
23	325	248	314	568	695	754	451	613	1272	1429	866	343	23
24	295	326	324	606	691	747	447	659	1341	1355	843	327	24
25	294 a	448	331	614	696	678	438	714	1365	1269	817	327	25
26	275	363	338	636	704	644	449	772	1377	1306	661	335	26
27	311	389	343	631	726	618	451	646	1419	1304	605	304	27
28	335	402	331	623	824	598	458	481	1434	1286	530	282	28
29	362	474	339	591		579	471	455	1425	1348	539	265	29
30	346	552	333	611		586	462	446	1408	1364	541	262	30
31	310		326	579		535		434		1347	522		31
MEAN	346	306	258	422	640	790	518	520	963	1336	1051	395	MEAN
MAX.	440	552	418	636	824	993	665	772	1434	1488	1435	539	MAX.
MIN.	275	195	26	324	556	535	438	434	439	1233	522	262	MIN.
AC. FT.	21285	18228	15844	25978	35520	48589	30809	31950	57322	82128	64643	23520	AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *
a - 25 HOUR DAY

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
630	1506		7			22		12			455800

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B &M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	1893-DATE					

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Land Company. Drainage area is 2,407 square miles.

TABLE B-3 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	C07120	BUENA VISTA CREEK NEAR TAFT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15					INSUFFICIENT DATA TO PUBLISH DAILY FLOWS								15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX. MIN. AC. FT.													MEAN MAX. MIN. AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR OBSERVATION OF NO FLOW
# — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
35 12 21	119 24 35	NW28 31S 24E		2.9	8-14-65		NOV 64-DATE	1964		0.00	LOCAL

Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).

DIVERSIONS

Diversion data formerly collected by the Department of Water Resources for the Stanislaus, Tuolumne, Merced, and San Joaquin Rivers and Dry Creek near Modesto have been discontinued. The last publication of such diversion data was in Bulletin 130-70.

The diversion data shown in Tables B-4 through B-8 have been furnished by the U. S. Bureau of Reclamation, City and County of San Francisco, local agencies including irrigation and water districts, and the Department's Division of Operations. Figures shown are monthly and annual acre-feet amounts of water diverted from the San Joaquin and Tule Rivers, deliveries from project canals, deliveries to irrigation districts, and imports to and exports from the San Joaquin Valley.

The diversion data are published as received without rounding according to criteria used by the Department.

TABLE 8-4

DIVERSIONS - SAN JOAQUIN RIVER
(Fremont Ford Bridge to Gravelly Ford)
October 1970 through September 1971

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT.-SEPT ACRE-FEET
			OCT.	NOV.	DEC.	JAN	FEB	MAR	APR.	MAY	JUNE	JULY	AUG	SEPT.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVINSON--	136.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	186.0														
San Luis Canal Company	186.6L	Gravity	7918	4943	1932		3328	14539	13742	20594	25509	28951	27769	18798	168023
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--															
--MENDOTA DAM--	208.63														
Central California I. D.	208.8 L	Gravity	11716	10322	22	752	16362	51553	44167	71044	74570	78833	81968	43478	a 484787
--FRESNO SLOUGH-- b	209.0L														
--DELTA-MENDOTA CANAL-- b	(0.2L)														
Firebaugh Canal Company b	(0.4L)		3003	123		926	4090	3217	5987	5341	6854	7087	6206	5402	c 48236
Producers Cotton Oil d Company b	(3.4L)						145	534	125	236	244	466	232	30	2012
State of California Mendota Waterfowl Management b	(6.45-8.20)		5830	1837	139			52		1317	2448	2479	3001	5429	22532
Fresno Slough Water District b	(9.20-10.50)		99			212	587	369	226	300	657	720	861	196	4227
--JAMES BYPASS--	(11.80R)														
Traction Ranch e	(0.75)					99	750	424	543	361	742	1053	1343	579	5894
Reclamation District 1606 e	(1.50)						97		42		204	186	177		706
James Irrigation District e	(4.4)					365	6694	2247	2967	3634	6587	8319	7918	2967	41698
Tranquillity Irrigation District b	(12.00-13.75)		559			351	5633	1586	1650	1613	5772	6730	5693	1230	30817
Melvin D. Hughes b	(12.20)							35				32	30		97
--LONE WILLOW SLOUGH--	219.8 R														
Columbia Canal Company	219.8 R		2840	1291	119	63	4372	4568	5214	6750	8509	9441	9104	6918	59189
State Center Land Company		f 1-6	232	167										149	548
M. Beck		g 1-8	23	18											41
Tulle Gun Club		h 1-8	9												9
Westlands Water District			768		258		2860	2708	2755	1284	3289	4610	4191	1003	i 23726
Grasslands			21749	2678										11221	35648
J. W. Wilson							147	58			54	83	60		402
Laguna Water District											50	200	99	51	400
Pacheco Water District									1500	500	1000	2499	1500		6999
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.83														
--GRAVELLY FORD CANAL--	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			54746	21379	2470	2768	45065	81890	78918	112974	136489	151689	150152	97451	935991
Average cubic feet per second			890	359	40	45	811	1332	1326	1837	2294	2467	2442	1638	1293
Monthly use in percent of seasonal			5.8	2.3	0.3	0.3	4.8	8.8	8.4	12.1	14.6	16.2	16.0	10.4	

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and include operational spill. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
b Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 209.0L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
c Total does not include Firebaugh Canal Company deliveries from the Delta-Mendota Canal.
d Formerly listed as M. L. Dudley.
e Plant is located on James Bypass which diverts from Fresno Slough at mile 11.80R. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
f One 6-inch pump located on arm of slough at SW corner S. 12, T. 14S., R. 15 E.
g One 8-inch pump located on arm of slough 1400 feet S. of NE corner, S. 24, T. 14 S., R. 15 E.
h One 8-inch pump located on arm of slough adjacent to M. Beck.
i Does not include 990 acre-feet delivered from the Delta-Mendota Canal via San Luis Water District to Westlands Water District.

TABLE B-4 (Cont.)

DIVERSIONS - TULE RIVER
October 1970 through September 1971

WATER USER	MILE AND BANK BELOW SUCCESS DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC.	JAN	FEB	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT	
--SUCCESS DAM--	0.0														
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	0.35														
Campbell-Moreland Ditch	2.4 L	Gravity	761	429			311	325	555	749	672	695	867	770	6134
--PORTER SLOUGH--	2.4 R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	a (2.4)														
--PIONEER SPILL--	a (3.7R)														
Porter Slough Ditch	a (4.5R)	Gravity	53	1	11			156	54	1	132	289	362	172	1231
--NEWCOMB AVENUE BRIDGE--	a (6.1)														
Vandalia Ditch	3.1 [illegible]	Gravity					107	140		136	123	292	288	38	1124
--SANTA FE RAILROAD BRIDGE--	5.1														
Poplar Ditch	5.8 L	Gravity	173	57	2248	1151	21	489	770	477	1056	1502	646	9	8599
--MAIN STREET BRIDGE--	5.9														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0														
Hubbs-Miner Ditch	6.4 R	Gravity	7					159	122	60	259	338	301	67	1313
--STATE HIGHWAY 65 BRIDGE--	6.6														
--OLIVE AVENUE BRIDGE--	9.9														
--FRIANT-KERN CANAL CROSSING--	10.5														
Woods-Central Ditch	11.0 L	Gravity		13	1777	1534					579	10304	9070	1448	24725
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.8														
--OTTLE BRIDGE--	14.4														
TULE RIVER															
Total			994	500	4036	2685	439	1269	1501	1423	2821	13420	11534	2504	43126
Average cubic feet per second			16	8	66	44	8	21	25	23	47	218	188	42	60
Monthly use in percent of seasonal			2.3	1.2	9.4	6.2	1.0	2.9	3.5	3.3	6.5	31.1	26.8	5.8	

Records furnished by the Tule River Association. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

a Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE B-5

DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1970 through September 1971

WATER USER	DIVERSION													ACREAGE IRRIGATED	
	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE
Friant-Kern Canal				San Joaquin River[a]											
Total acre-feet diverted	35430	14980	0	12130	125700	106700	72480	51850	12320[illegible]	2337[illegible]	218200	97920	1092[illegible]	Not Available	
Average cubic feet per second	576	252	0	197	2263	1736	1218	843	2070	3801	3546	1646	15[illegible]9		
Monthly use in percent of seasonal	3.2	1.4	0	1.1	11.5	9.8	6.6	4.7	11.3	21.4	20.0	9.[illegible]			
Madera Canal															
Total acre-feet diverted	14920	599	0	0	10130	30380	9940	13210	47720	70350	65890	17520	280700	Not Available	
Average cubic feet per second	243	10	0	0	182	494	167	215	802	1144	1072	295	388		
Monthly use in percent of seasonal	5.3	0.2	0	0	3.6	10.8	3.6	4.7	17.0	25.1	23.5	6.2			
Merced Irrigation District					Merced River										
Main Canal	15196	655	2535	3743	4723	39013	46390	53689	79346	108567	88198	6038[illegible]	502435	b 106994	6046
Northside Canal	1250	69	123	97	46	1158	2406	2944	3771	4503	4211	2870	23448		
Total acre-feet diverted	16446	724	2658	3840	4769	40171	48796	56633	83117	113070	92409	63250	c 525883		
Average cubic feet per second	267	12	43	62	86	653	820	921	1397	1839	1503	1063	726		
Monthly use in percent of seasonal	3.1	0.1	0.5	0.7	0.9	7.7	9.3	10.8	15.8	21.5	17.6	12.0			
Turlock Irrigation District				Tuolumne River											
Total acre-feet diverted	20313	250	179	28689	6976	62497	61577	79990	74461	103835	100249	49833	d 588849	e 172308	
Average cubic feet per second	330	4	3	467	126	1016	1034	1301	1251	1689	1630	837	813		
Monthly use in percent of seasonal	3.5	0	0	4.9	1.2	10.6	10.5	13.6	12.6	17.6	17.0	8.5			
Modesto Irrigation District															
Total acre-feet diverted	9986	0	0	0	32	33028	37975	32840	41208	52358	45051	18560	f 271038	g 62713	16
Average cubic feet per second	162	0	0	0	1	537	638	534	693	851	733	312	374		
Monthly use in percent of seasonal	3.7	0	0	0	0	12.2	14.0	12.1	15.2	19.3	16.6	6.9			
Waterford Irrigation District															
Total acre-feet diverted	2414	0	0	0	0	2402	6215	6510	6962	7692	6899	4950	h 44044	i 7288	
Average cubic feet per second	39	0	0	0	0	39	104	106	117	125	112	83	61		
Monthly use in percent of seasonal	5.5	0	0	0	0	5.4	14.1	14.8	15.8	17.5	15.7	11.2			
Oakdale Irrigation District				Stanislaus River											
Northside Canal	8699	0	0	0	0	6171	17819	21666	23220	20248	19554	16712	134089	j 23772	3929
Southside Canal	12940	0	0	0	0	10987	25303	27243	30641	29253	28922	24664	189953	k 34668	532
Total acre-feet diverted	21639	0	0	0	0	17158	43122	48909	53861	49501	48476	41376	324042	m 58440	4461
Average cubic feet per second	352	0	0	0	0	279	725	795	905	805	788	695	448		
Monthly use in percent of seasonal	6.7	0	0	0	0	5.3	13.3	15.1	16.6	15.3	15.0	12.7			
South San Joaquin Irrigation District															
Total acre-feet diverted	4715	0	0	0	4367	25220	43627	46253	46196	48435	47464	34661	300938	n 64121	253
Average cubic feet per second	77	0	0	0	79	410	733	752	776	788	772	583	416		
Monthly use in percent of seasonal	1.6	0	0	0	1.4	8.4	14.5	15.4	15.3	16.1	15.8	11.5			

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.

b Of this acreage, 2,809 were double cropped. Does not include an undetermined amount of riparian water users acreage.

c An additional 161,522 acre-feet of water was pumped from wells.

d An additional 156,766 acre-feet of water was pumped from wells.

e Of this acreage, 28,445 were double cropped.

f An additional 70,740 acre-feet of water was pumped from wells.

g Of this acreage, 9,118 were double cropped.

h An additional 1,218 acre-feet of water was pumped from wells.

i Of this acreage, 219 were double cropped.

j Of this acreage, 713 were double cropped.

k Of this acreage, 599 were double cropped.

m This acreage also received 49,775 acre-feet of water from wells and controlled drainage.

n This acreage also received an undetermined amount of well water and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 3,653 were double cropped.

TABLE 8-6

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1970 through September 1971

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	FROM	TO	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
								Delta-Mendota Canal							
Plain View Water District	4.22	2[illegible].96	805	16	3	3	3	852	1696	286[illegible]	3[illegible]84	357[illegible]	3644	2382	1962[illegible]
Westside Irrigation District	14.79		0	0	0	0	0	0	235	392	783	1378	706	[illegible]	3494
Hospital Water District	18.05	30.96	837	39	0	5	181	2069	2805	3881	4871	5537	3682	1914	25821
Banta-Carbona Irrigation District	20.42		36	0	0	0	275	81	469	1471	736	3096	2443	0	8607
Gordon H. Ball, Incorporated	22.50		5	3	0	0	3	4	7	3	5	3	1	4	3[illegible]
Kern Canon Water District	31.31	35.18	100	109	0	0	113	1217	1332	1035	1595	1254	1416	576	8747
West Stanislaus Irrigation District	21.21	38.14	0	0	0	2	1	140	1757	3775	9103	11090	5564	0	31432
Del Puerto Water District	35.73	42.51	326	0	0	0	328	2335	1615	1841	2475	2830	1806	1191	14747
Salado Water District	42.10	46.85	56	0	0	4	455	1094	1826	1756	1854	2266	1389	219	10919
Patterson Water District	42.51		88	0	0	0	320	1379	941	454	1852	760	1202	127	7123
Sunflower Water District	44.22	52.02	31	0	0	0	289	1412	2496	2023	2319	2993	2114	879	14556
Orestimba Water District	46.83	51.41	130	84	0	0	305	1502	3691	2116	2714	3821	2536	679	17578
Foothill Water District	51.65	57.46	443	4	0	0	143	869	1461	1349	1405	2248	1613	990	10525
Davis Water District	53.64	56.82	0	0	0	0	8	480	326	732	922	1130	587	430	4615
Mustang Water District	56.80	62.67	321	0	0	0	46	1319	893	1545	2093	2484	1857	1239	11797
Central California Irrigation District	58.26	76.06	703	20	0	0	0	2677	4079	6143	7248	11018	9215	4963	46066
Quinto Water District	64.32	67.55	136	0	0	0	9	737	479	1157	1220	1619	1293	949	7599
Centinella Water District	66.20		0	0	0	0	0	296	217	300	305	431	212	144	1905
Romero Water District	66.70	68.03	68	0	0	0	0	252	211	789	737	837	676	678	4248
San Luis Water District Municipal and Industrial	69.21		48	54	40	11	57	44	53	55	127	93	28	48	658
San Luis Water District	69.21	90.53	2901	1605	65	1938	7129	11591	6993	6572	10331	13783	9978	4050	a 76936
Grasslands Water District	70.00		12247	3199	0	0	0	0	0	0	0	0	0	4278	19724
Sam Hamburg Farms	90.53		2	1	1	1	1	1	2	2	3	4	3	3	24
Panoche Water District	93.25	96.70	1709	1996	1053	1758	6291	8775	5668	6092	7865	12376	8649	2707	64939
Eagle Field Water District	93.27	94.57	221	189	0	0	298	264	323	771	757	1015	723	375	4936
Oro Loma Water District	95.50	96.62	109	0	0	0	23	0	675	1060	979	1143	1010	184	5183
West Side Golf Club, Incorporated	95.95		14	5	7	4	4	9	12	17	21	25	20	19	157
Mercy Springs Water District	97.70	99.81	73	0	0	0	0	204	781	1265	904	1512	1227	417	6383
Panoche Water District Municipal and Industrial	100.84		1	1	1	1	1	1	1	1	1	1	1	1	12
Widren Water District	102.03		0	0	0	0	0	68	23	229	221	302	371	132	1346
Broadview Water District	102.95		87	1088	376	704	2588	2200	1008	1573	3244	3064	1215	51	17198
Firebaugh Canal Company	109.45		0	0	0	0	1515	0	660	7198	6872	8031	8162	1441	33879
Total			21497	8413	1546	4431	20386	41872	42735	58464	77146	99714	73543	31070	480817
Net Deliveries DMC to Mendota Pool	115.62		66354	19954	540	7095	52097	90152	86883	119716	151036	167649	162441	105223	1029140
Net Deliveries DMC to O'Neill Forebay	69.30		35920	b -3904	b -2165	b-12419	48223	95379	70049	48801	42039	22191	32334	34792	411240
								Madera Canal							
Madera Irrigation District	6.10	32.2	13170	772	0	0	7103	16086	9838	7510	29324	41646	38105	3620	167174
Adobe Ranch	20.6		92	62	0	0	0	0	0	0	0	0	18	23	195
Chowchilla Water District	35.9		0	0	0	0	901	13884	0	5556	17471	25712	26704	15260	105488
Total			13262	834	0	0	8004	29970	9838	13066	46795	67358	64827	18903	272857
								Millerton Lake							
Fresno County Water District #18			9	5	2	3	3	5	8	9	17	22	22	14	119
County of Madera			2	1	0	2	1	1	2	3	1	4	2	2	21
Total			11	6	2	5	4	6	10	12	18	26	24	16	140

TABLE B-6 (Cont.)

DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1970 through September 1971

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	FROM	TO	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
							Friant-Kern Canal								
Garfield Water District	7.53		239	137	0	0	225	281	347	470	476	535	520	333	3563
Dog Creek Water District	14.8		0	0	0	0	0	0	0	0	0	0	0	0	0
International Water District	14.9		92	0	0	0	0	36	73	125	196	258	202	190	1172
Academy Water District	17.63		0	0	0	0	0	0	0	0	0	0	0	0	0
Round Mountain Ranch	20.22		0	0	0	0	0	0	0	0	0	5	11	3	19
Consolidated Irrigation District	28.50		0	0	0	0	15810	0	0	0	0	0	0	0	15810
Last Chance Water Ditch Company	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Laguna Irrigation District	28.50		0	0	0	0	1666	0	0	0	0	0	0	0	1666
Corcoran Irrigation District	28.50		0	0	0	0	3332	0	0	0	0	0	0	0	3332
Stratford Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Tulare Lake Basin Water Storage District	28.50 & 95.64		0	0	0	0	0	0	0	0	0	0	0	0	0
Alta Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
City of Fresno	25.51		0	0	0	0	0	0	0	0	0	15000	0	0	15000
Fresno Irrigation District	25.51 & 28.50		40	0	0	0	1595	15289	7420	16	3606	28921	13916	38	70841
Murphy Slough Association	28.50		0	0	0	0	1331	0	0	0	0	0	0	0	1331
Cohn Central Consolidated R.D. #761	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Empire Westside Irrigation District	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings River Water Association	28.50		0	0	0	0	0	0	0	0	0	0	0	0	0
Kings County Water District	28.50	71.29	0	0	0	0	9983	0	0	0	0	0	0	0	9983
Hills Valley Irrigation District	41.12		0	0	0	0	0	0	0	0	0	0	0	0	0
Orange Cove Irrigation District	35.87	53.31	2928	1018	0	0	0	795	2039	1775	4499	6623	6815	5318	31810
City of Orange Cove	43.44		29	8	0	0	5	19	26	26	50	62	60	44	329
Stone Corral Irrigation District	56.90	64.40	375	179	0	0	56	228	595	347	976	1607	1803	932	7098
Ivanhoe Irrigation District	65.04	68.13	1154	198	0	0	200	61	198	305	1607	2658	3172	2321	11874
Tulare Irrigation District	68.14	71.29	0	0	0	0	24419	0	0	0	18865	24342	37735	0	105361
Lakeside Irrigation Water District	69.42		0	0	0	0	6661	0	0	0	0	0	0	0	6661
Kaweah-Delta Water Conservation District	69.08	71.29	0	0	0	0	8323	0	0	0	0	0	0	0	8323
Exeter Irrigation District	72.52	79.24	734	189	0	0	36	564	1066	1287	2365	3620	4218	2570	16649
Lewis Creek Water District	81.54		55	14	0	0	0	34	83	152	175	197	254	159	1123
Lindsay-Strathmore Irrigation District	85.56		3032	1423	0	0	0	910	2033	2178	3336	4861	5214	4412	c 27399
Lindmore Irrigation District	86.17	91.12	3182	1022	0	0	497	3570	3586	3332	5855	9289	9345	6536	46214
Porterville Irrigation District	93.93	98.62	680	149	0	0	1226	2059	2154	2095	3578	5764	5609	2346	25660
Lower Tule Irrigation District	95.67	98.62	1117	0	0	0	16614	24115	12589	11145	17905	25214	26133	18224	153056
Tea Pot Dome	99.35		532	246	0	0	0	145	253	284	516	840	915	781	4512
Saucelito Irrigation District	98.62	107.37	644	635	0	0	1135	4334	2219	1399	3079	7012	7466	3726	31649
Ducor Community Service District	101.60		0	0	0	0	0	0	0	0	0	0	0	0	0
Terra Bella Irrigation District	102.65		1904	831	0	0	0	191	1384	1265	2003	3862	4096	3038	18574
Pixley Irrigation District	102.69		0	0	0	0	2184	0	0	0	0	0	0	0	2184
Delano-Earlimart Irrigation District	109.48	118.45	4842	2489	0	0	3740	16516	12615	8438	18306	29353	26389	11746	134434
Alpaugh Irrigation District	112.96		0	0	0	0	336	0	0	0	0	0	0	0	336
Southern San Joaquin Municipal Utility District	117.44	127.97	3132	1891	0	0	1666	16702	8752	6435	13389	25282	23295	11429	111973
Rag Gulch Water District	117.96		0	0	0	0	0	0	0	0	0	0	0	0	0
Kern County Water Agency	130.03		0	0	0	0	0	0	0	0	0	0	0	0	0
Shafter-Wasco Irrigation District	134.42	137.17	2445	2029	166	0	1374	7478	3798	3109	7371	12105	11184	5264	56323
Rosedale Rio Bravo Water Storage District	151.0		0	0	0	0	8355	0	0	0	0	0	0	0	8355
Buena Vista Water Storage District	151.80		0	0	0	0	8001	0	0	0	0	0	0	0	8001
Arvin-Edison Water Storage District	151.80		[illegible]92	8418	1904	0	4847	11088	13200	10546	15037	23197	21850	13184	129063
Total			32948	20876	2070	0	123617	104415	74430	54729	123190	230607	210202	92594	d1069678

Data furnished by U. S. Bureau of Reclamation. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources. Deliveries include operational spill, but do not include wasteway spill.

a Includes 990 acre-feet delivered to Westlands Water District under separate agreement.
b Net delivery of (minus) acre-feet results from water being taken from O'Neill Forebay to Delta-Mendota Canal for delivery downstream.
c Includes water transported from Wutchumna.
d Does not include wasteway spills of 1,349 acre-feet in November and 490 acre-feet in December to Kern River.

TABLE B-

DELIVERIES FROM CALIFORNIA AQUEDUCT[a]
October 1970 through September 1971

WATER USER	MONTHLY DELIVERIES IN ACRE FEET												TOTAL
	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
					North San Joaquin Division								
South Bay Aqueduct	4388	3513	5071	5228	6338	7805	14919	12679	11883	13441	14806	7353	107424
Oak Flat Water District	76	7	0	0	121	445	1386	722	1024	1759	1252	371	7163
Mustang Water District	0	0	0	0	0	37	100	263	271	407	314	46	1438
Total	4464	3520	5071	5228	6459	8287	16405	13664	13178	15607	16372	7770	116025
					O'Neill Forebay								
San Luis Water District Total	49	37	5	7	77	643	861	695	788	1261	866	260	5549
					San Luis Division								
San Luis Water District	2	2	1	2	2	704	717	355	1015	2086	812	58	5756
Panoche Water District	984	836	1370	2369	3529	3721	2616	646	2618	5195	3774	662	28320
Westlands Water District	27073	20628	14222	27299	49402	62326	40642	50223	80665	96265	79095	28312	576152
City of Huron	42	30	26	31	23	40	45	46	59	73	68	50	533
City of Coalinga	48	63	79	93	70	87	93	100	89	94	87	88	991
Total	28149	21559	15698	29794	53026	66878	44113	51370	84446	103713	83836	29170	611752
					South San Joaquin Division								
Tulare Lake Basin Water Storage District	0	0	0	278	1571	2393	4353	297	1149	8816	21274	25164	65295
Empire West Side Irrigation District	458	725	0	0	0	0	627	1227	384	1464	808	0	5693
Kings County	0	0	0	0	165	16	0	0	188	188	664	664	1885
Hacienda Water District	2388	273	0	0	0	604	436	307	852	1136	949	1061	8006
Dudley Ridge Water District	1937	1319	536	669	1375	1954	3925	4263	4816	7160	7898	5094	40946
Kern County Water Agency	4740	4953	2572	3069	10529	28672	20328	14680	36327	58526	47607	19839	251842
Buena Vista Farms	0	0	0	0	58	919	1607	416	0	0	2847	789	6636
Buena Vista Water Storage District	0	0	0	0	0	0	0	0	0	1154	7080	7	8241
Total	9523	7270	3108	4016	13698	34558	31276	21190	43716	78444	89127	52618	388544
					Coastal Branch								
Devil's Den Water District	611	754	672	256	895	1378	1073	872	889	932	784	777	9893
Kern County Water Agency	2926	0	484	1909	4816	8744	8593	5889	9950	19725	22714	12222	97972
Total	3537	754	1156	2165	5711	10122	9666	6761	10839	20657	23498	12999	107865
Delta Pumping Plant to California Aqueduct	26008	88178	113385	111758	42318	50790	60219	44791	68250	101590	123348	50719	881354

Data furnished by the Division of Operations and Maintenance.

[a] Entitlement, Surplus and Repayment Preconsolidation water have been combined in this table and do not include operational losses or change in storage.

TABLE B-8

IMPORTS AND EXPORTS
October 1970 through September 1971

WATER USER	IN ACRE-FEET												TOTAL
	OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.	SEPT.	
						Imports from Delta							
California Aqueduct (a)	21620	84660	108300	106500	35980	42980	45300	32110	56370	88150	108500	43370	773800
Delta-Mendota Canal	125930	27970	470	1450	128390	233940	198430	221940	264160	280580	268830	165400	1917490
Total Imports from Delta	147600	112600	108800	108000	164400	276900	243700	254000	320500	368700	377300	208800	2691000
						Exports from Tuolumne River							
City and County of San Francisco (b)	21579	15955	15653	11058	10457	9485	18773	22237	21858	22877	22814	21999	214745

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tuolumne River exports furnished by City and County of San Francisco; acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

(a) Water pumped at Delta Pumping Plant less deliveries to South Bay Aqueduct.
(b) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-9

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15				DATA NOT AVAILABLE AT TIME OF PUBLICATION									15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00	USCGS

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.89	1.67	1.74	1.88	2.05	1.86	1.76	1.97	2.04	2.41	2.60	2.29	1
2	1.90	1.68	1.74	1.91	2.08	1.85	1.78	1.98	2.05	2.41	2.57	2.35	2
3	1.90	1.68	1.75	1.91	2.05	1.84	1.74	2.03	2.05	2.41	2.55	2.31	3
4	1.91	1.68	1.75	1.89	2.03	1.84	1.76	1.97	2.06	2.41	2.54	2.26	4
5	1.92	1.68	1.75	1.88	2.02	1.84	1.75	1.93	2.06	2.41	2.54	2.26	5
6	1.92	1.69	1.75	1.89	2.01	1.84	1.76	1.80	2.07	2.41	2.53	2.26	6
7	1.93	1.70	1.75	1.89	2.01	1.83	1.76	1.82	2.05	2.41	2.53	2.26	7
8	1.93	1.69	1.77	1.89	2.00	1.84	1.77	1.93	2.04	2.42	2.52	2.25	8
9	1.93	1.69	1.78	1.89	2.00	1.84	1.76	1.97	2.03	2.43	2.51	2.26	9
10	1.93	1.69	1.77	1.90	1.99	1.85	1.84	1.94	2.03	2.42	2.50	2.26	10
11	1.93	1.70	1.77	1.89	1.96	1.85	1.94	1.93	2.05	2.42	2.52	2.26	11
12	1.93	1.71	1.77	1.90	1.93	1.86	1.94	1.96	2.04	2.41	2.52	2.26	12
13	1.93	1.76	1.77	1.94	1.89	1.95	1.94	1.94	2.04	2.41	2.52	2.30	13
14	1.93	1.89	1.77	1.96	1.89	1.89	1.94	1.94	2.10	2.40	2.52	2.35	14
15	1.93	1.89	1.77	1.90	1.88	1.87	1.95	1.93	2.28	2.39	2.51	2.37	15
16	1.93	1.90	1.80	1.89	1.87	1.87	1.95	1.94	2.40	2.43	2.51	2.43	16
17	1.93	1.92	1.82	1.89	1.88	1.86	1.97	1.95	2.47	2.50	2.49	2.49	17
18	1.92	1.98	1.81	1.89	1.87	1.87	1.98	1.96	2.69	2.50	2.47	2.49	18
19	1.92	1.99	1.80	1.89	1.86	1.87	1.93	1.97	2.77	2.51	2.42	2.49	19
20	1.92	2.02	1.80	1.89	1.86	1.87	1.79	1.97	2.84	2.54	2.40	2.49	20
21	1.93	2.06	1.91	1.89	1.85	1.86	1.79	1.97	2.89	2.58	2.34	2.49	21
22	1.89	2.07	1.94	1.89	1.84	1.84	1.79	1.98	2.89	2.58	2.28	2.47	22
23	1.84	2.07	1.88	1.89	1.85	1.86	1.79	1.98	2.82	2.60	2.27	2.45	23
24	1.84	2.08	1.87	1.89	1.85	1.86	1.80	1.98	2.81	2.64	2.26	2.45	24
25	1.84	2.06	1.86	1.89	1.85	1.87	1.80	1.98	2.81	2.65	2.26	2.45	25
26	1.83	1.98	1.86	1.89	1.84	1.77E	1.83	1.99	2.81	2.67	2.26	2.45	26
27	1.84	1.90	1.87	1.90	1.84	1.94	1.88	2.02	2.72	2.67	2.26	2.42	27
28	1.80	1.86	1.93	1.93	1.86	1.92	1.91	2.03	2.63	2.65	2.26	2.39	28
29	1.67	1.77	1.91	1.97		1.89	1.96	2.03	2.49	2.61	2.25	2.36	29
30	1.67	1.74	1.88	1.99		1.69E	2.04	2.03	2.41	2.61	2.26	2.33	30
31	1.67		1.88	2.03		1.73		2.03		2.60	2.26		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
6-22-71	1630	3.07									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T & R M.O.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reaservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	62.92	62.71	63.71	64.03	63.09	62.24	62.22	62.04	62.60	61.72	61.59	61.76	1
2	62.84	62.66	63.57	63.99	63.07	62.24	62.13	61.96	62.53	61.69	61.57	61.91	2
3	62.74	62.65	63.50	63.94	63.06	62.21	62.08	62.04	62.34	61.69	61.59	61.99	3
4	62.56	62.91	63.58	63.70	63.04	62.20	62.13	61.97	62.38	61.75	61.65	62.04	4
5	62.44	63.08	63.43	63.47	63.01	62.18	62.09	62.17	62.21	61.73	61.69	62.04	5
6	62.31	63.24	63.26	63.34	63.00	62.20	62.07	62.20	61.98	61.70	61.66	62.03	6
7	62.24	63.24	63.17	63.33	62.99	62.23	62.10	62.26	61.85	61.73	61.66	62.01	7
8	62.39	63.13	63.10	63.27	62.99	62.18	62.13	62.47	61.78	61.70	61.64	61.98	8
9	62.47	62.95	63.01	63.18	62.98	62.22	62.06	63.17	61.80	61.67	61.68	61.97	9
10	62.56	62.80	63.01	63.13	62.97	62.26	61.98	62.84	61.83	61.63	61.71	61.94	10
11	62.55	62.65	62.99	63.09	62.97	62.27	61.95	62.40	61.90	61.63	61.77	61.99	11
12	62.43	62.70	62.92	63.12	62.97	62.32	61.93	62.39	61.96	61.66	61.76	61.93	12
13	62.35	62.79	62.88	63.22	62.95	62.41	61.89	62.38	61.82	61.67	61.74	61.91	13
14	62.28	62.63	62.90	63.32	62.91	62.47	61.99	62.24	61.73	61.65	61.72	61.98	14
15	62.23	62.56	62.86	63.51	62.87	62.60	62.37	62.22	61.69	61.69	61.72	62.08	15
16	62.10	62.51	62.82	63.61	62.86	62.71	63.35	62.12	61.67	61.65	61.70	62.10	16
17	62.15	62.49	62.83	63.60	62.85	62.76	63.21	61.97	61.63	61.59	61.74	61.91	17
18	62.16	62.37	62.88	64.01	62.89	62.66	63.31	61.95	61.62	61.58	61.76	61.87	18
19	62.17	62.33	63.76	64.11	62.88	62.46	63.23	61.98	61.66	61.56	61.69	61.81	19
20	62.65	62.36	64.25	64.10	62.67	62.37	62.47	62.00	61.74	61.56	61.65	61.81	20
21	62.81	62.33	64.46	64.00	62.41	62.33	62.20	61.95	61.78	61.60	61.61	61.88	21
22	62.83	62.29	65.25	63.87	62.38	62.27	62.11	61.97	61.82	61.66	61.68	61.84	22
23	62.89	62.26	65.94	63.75	62.43	62.23	62.11	61.90	61.82	61.64	61.76	61.81	23
24	62.85	62.26	65.75	63.62	62.38	62.21	62.06	61.94	61.70	61.64	61.82	61.86	24
25	62.82	62.26	65.42	63.53	62.42	62.22	62.00	61.95	61.64	61.66	61.82	61.97	25
26	62.77	62.53	64.92	63.44	62.41	62.39	61.89	61.90	61.65	61.66	61.88	61.91	26
27	62.75	62.71	64.50	63.37	62.36	62.54	61.90	62.09	61.64	61.67	61.88	61.91	27
28	62.60	62.65	64.35	63.31	62.20	62.63	61.88	62.11	61.65	61.66	61.83	62.04	28
29	62.55	62.95	64.24	63.25		62.56	61.94	62.57	61.69	61.65	61.82	62.07	29
30	62.69	63.46	64.15	63.16		62.38	61.94	62.59	61.71	61.68	61.83	61.97	30
31	62.71		64.06	63.11		62.30		62.62		61.65	61.81		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	1245	65.99									
1-19-71	0100	64.13									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B &M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 17 42	120 51 00	26 7S 10E	26740	76.23	2-26-69	OCT 61-DATE	MAY 61-SEP 61	1961		0.00	USCGS

Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flow regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	55.73	55.16	56.96	56.90	56.21	55.88	56.22	55.58	56.66	55.49	54.93	55.20	1
2	55.65	55.09	57.14	56.82	56.18	56.00	56.01	55.58	56.57	55.32	54.94	55.33	2
3	55.61	55.01	57.33	56.79	56.19	55.97	55.88	55.75	56.40	55.18	54.98	55.37	3
4	55.58	55.20	57.31	56.60	56.14	55.85	55.83	55.90	56.26	55.22	54.89	55.23	4
5	55.52	55.62	57.22	56.41	56.04	55.83	55.85	55.98	56.14	55.31	54.87	55.30	5
6	55.37	55.85	57.03	56.21	55.97	55.79	55.85	56.09	55.91	55.35	54.90	55.34	6
7	55.23	55.96	56.92	56.18	55.95	55.74	55.85	56.12	55.92	55.35	54.80	55.38	7
8	54.97	55.95	56.81	56.14	55.94	55.73	55.78	56.25	55.83	55.21	54.82	55.38	8
9	54.91	55.92	56.78	56.06	55.93	55.78	55.81	56.64	55.66	55.16	55.01	55.22	9
10	55.02	55.85	56.69	55.93	55.89	55.82	55.84	56.77	55.60	55.16	55.07	55.21	10
11	55.08	55.70	56.60	55.78	55.86	55.81	55.94	56.48	55.76	55.11	55.14	55.26	11
12	55.05	55.73	56.50	55.73	55.85	55.85	56.06	56.27	55.70	55.11	55.05	55.24	12
13	54.74	55.87	56.49	55.78	55.84	55.93	56.14	56.25	55.74	55.19	55.08	55.32	13
14	54.76	55.83	56.50	55.87	55.80	56.20	56.17	56.12	55.73	55.22	55.08	55.28	14
15	54.79	55.75	56.51	56.03	55.78	56.34	56.16	55.94	55.87	55.33	55.00	55.28	15
16	54.81	55.64	56.50	56.17	55.76	56.36	56.69	55.77	55.80	55.32	55.09	55.26	16
17	54.67	55.54	56.49	56.12	55.69	56.48	56.97	55.66	55.83	55.18	55.03	55.28	17
18	54.60	55.47	56.48	56.50	55.72	56.41	56.86	55.58	55.74	55.25	55.06	55.16	18
19	54.75	55.44	56.76	56.99	55.78	56.23	56.85	55.68	55.66	55.25	55.03	54.93	19
20	54.77	55.47	57.31	57.12	55.84	56.18	56.53	55.70	55.54	55.27	55.01	54.88	20
21	55.18	55.46	57.62	57.12	55.75	56.21	56.12	55.67	55.48	55.25	55.08	54.83	21
22	55.31	55.41	58.00	57.05	55.87	56.18	56.00	55.82	55.53	55.07	55.10	54.80	22
23	55.39	55.34	58.72	57.06	55.92	56.07	55.93	55.84	55.49	54.91	55.19	54.80	23
24	55.30	55.32	58.69	57.04	55.84	56.00	55.89	55.83	55.27	54.93	55.21	54.78	24
25	55.23	55.33	58.54	56.96	55.81	56.04	55.78	55.78	55.26	54.95	55.14	54.72	25
26	55.19	55.37	58.08	56.81	55.78	56.25	55.68	55.70	55.32	55.03	55.10	54.78	26
27	55.31	55.55	57.64	56.63	55.79	56.58	55.63	55.70	55.40	54.99	55.08	54.89	27
28	55.30	55.65	57.35	56.50	55.80	56.69	55.59	55.84	55.56	55.00	55.10	54.93	28
29	55.04	55.94	57.18	56.39		56.66	55.60	56.31	55.56	54.80	55.17	54.92	29
30	55.11	56.49	57.10	56.34		56.60	55.57	56.51	55.62	54.84	55.28	54.86	30
31	55.22		56.99	56.35		56.36		56.59		54.88	55.35		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12- 3-70	1600	57.37									
12-23-70	0900	58.83									
1-22-71	0030	57.07									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 18 35	120 55 45		9180a	68.05	2-26-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

a During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.95	6.15	6.46	8.17	7.14	6.64	6.21	6.02	6.14	5.94	5.96	6.03	1
2	5.95	6.14	6.48	8.19	7.19	6.63	6.33	6.07	6.18	6.00	5.98	6.00	2
3	5.95	6.23	6.47	8.20	7.18	6.64	6.37	6.20	6.06	6.03	5.96	6.08	3
4	5.98	6.40	6.47	8.27	7.19	6.64	6.32	6.39	5.98	6.00	6.01	6.10	4
5	6.00	6.40	6.46	8.29	7.19	6.58	6.30	6.18	6.10	5.97	6.02	6.12	5
6	5.92	6.40	6.46	8.27	7.23	6.50	6.42	6.23	6.07	6.05	5.97	6.18	6
7	6.80	6.42	6.48	8.27	7.24	6.56	6.34	6.32	6.13	6.11	5.97	6.21	7
8	6.96	6.38	6.47	8.13	7.85	6.61	6.31	6.31	6.11	6.12	6.01	6.26	8
9	6.99	6.38	6.48	7.30	8.63	6.48	6.32	6.15	6.07	6.08	6.00	6.17	9
10	6.99	6.41	7.04	7.23	8.66	6.40	6.21	6.01	6.08	6.08	6.04	6.13	10
11	6.54	6.43	8.19	7.21	8.60	6.47	6.34	6.03	6.13	6.05	6.11	6.11	11
12	6.40	6.42	8.17	7.21	8.42	6.48	6.28	6.13	6.13	6.04	6.05	6.09	12
13	6.19	6.42	8.17	7.19	7.30	6.58	6.36	6.04	6.14	6.04	6.01	6.07	13
14	6.16	6.45	8.20	7.17	7.23	6.55	6.40	6.06	6.22	6.11	6.03	6.03	14
15	6.14	6.44	8.24	7.12	7.20	6.57	6.13	6.12	6.23	6.08	6.02	5.98	15
16	6.13	6.43	8.24	7.11	7.19	6.58	6.22	6.04	6.30	6.11	6.05	6.07	16
17	6.11	6.44	8.23	7.10	7.14	6.51	6.32	6.04	6.02	6.28	6.07	6.07	17
18	6.12	6.43	8.25	7.12	7.16	6.39	6.39	5.96	5.98	6.16	6.00	6.08	18
19	6.11	6.41	8.32	7.10	7.16	6.40	6.29	6.11	6.18	6.12	5.89	6.10	19
20	5.96	6.48	8.20	7.11	7.15	6.42	6.20	6.08	6.18	6.09	5.93	6.08	20
21	6.01	6.44	8.43	7.13	7.14	6.46	6.10	6.13	6.15	6.12	6.05	6.11	21
22	6.14	6.43	8.26	7.15	7.15	6.47	6.03	6.01	6.17	5.99	6.02	6.15	22
23	6.17	6.42	8.22	7.15	6.84	6.46	6.00	6.06	6.09	6.04	5.99	6.18	23
24	6.19	6.41	8.13	7.13	6.53	6.35	5.94	6.05	6.05	6.02	6.04	6.18	24
25	6.17	6.46	8.23	7.12	6.65	6.37	6.00	6.11	6.07	6.02	5.97	6.20	25
26	6.17	6.43	8.26	7.13	6.65	6.47	6.05	6.16	6.11	6.08	5.98	6.28	26
27	6.17	6.41	8.26	7.11	6.66	6.50	6.04	6.20	6.07	6.08	6.02	6.22	27
28	6.16	6.43	8.23	7.12	6.69	6.37	6.02	6.26	6.04	6.05	6.07	6.24	28
29	6.16	6.49	8.21	7.13		6.36	5.93	6.17	6.07	5.95	6.08	6.24	29
30	6.18	6.50	8.21	7.13		6.30	6.15	6.23	6.03	5.92	6.10	6.29	30
31	6.15		8.20	7.13		6.26		6.14		5.96	6.10		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-21-70	0630	8.74									
2-10-71	0130	8.70									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B05155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	10.76	10.89	11.29	12.82	11.65	11.20	10.84E	10.81	10.87	10.60	10.48	10.66	1
2	10.79	10.87	11.26	12.83	11.67	11.16	10.87	10.74	10.79	10.58	10.52	10.74	2
3	10.79	10.87	11.45	12.80	11.67	11.15	10.94	10.76	10.74	10.57	10.51	10.69	3
4	10.79	10.95	11.33	12.85	11.67	11.17	10.97	10.83	10.74	10.63	10.49	10.76	4
5	10.75	11.09	11.23	12.93	11.66	11.16	10.99	10.90	10.67	10.67	10.50	10.81	5
6	10.73	11.11	11.20	12.81	11.66	10.96	10.88	10.88	10.68	10.61	10.52	10.81	6
7	10.75	11.12	11.19	12.89	11.68	11.04	10.98	10.86	10.70	10.58	10.52	10.82	7
8	11.11	11.10	11.17	12.90	11.69	11.06	10.98	10.93	10.61	10.60	10.49	10.85	8
9	11.50	11.06	11.17	12.47	12.68	11.06	10.85	10.99	10.64E	10.68	10.50	10.92	9
10	11.51	11.05	11.16	11.87	13.23	11.04	10.92	10.93	10.64E	10.66	10.54	10.97	10
11	11.51	11.06	11.75	11.78	13.23	10.95	10.90	10.84	10.65E	10.67	10.55	10.93	11
12	11.30	11.08	12.85	11.80	13.20	11.01	10.94	10.76	10.65E	10.67	10.56	10.94	12
13	11.07	11.07	12.68	11.89	12.63	11.11	10.94	10.79	10.66E	10.59	10.55	10.96	13
14	10.96	11.06	12.72	11.93	11.80	11.19	11.01	10.73	10.66E	10.50	10.57	10.92	14
15	10.88	11.07	12.77	11.81	11.73	11.16	11.05	10.68	10.66E	10.47	10.61	10.85	15
16	10.85	11.07	12.84	11.75	11.68	11.16	10.92	10.70	10.67	10.51	10.70	10.80	16
17	10.86	11.06	12.95	11.71	11.65	11.16	10.93	10.71	10.75	10.54	10.62	10.75	17
18	10.84	11.06	12.96	11.69	11.63	11.10	11.01	10.66	10.67	10.67	10.57	10.76	18
19	10.78	11.06	13.17	11.68	11.68	11.03	11.07	10.62	10.57	10.69	10.63	10.79	19
20	10.80	11.03	13.28	11.66	11.65	11.02	11.02	10.68	10.58	10.57	10.59	10.85	20
21	10.79	11.09	13.59	11.65	11.62	11.01	10.97	10.73	10.68	10.51	10.63	10.96	21
22	10.75	11.07	13.59	11.66	11.62	11.03	10.89	10.76	10.63	10.53	10.62	10.92	22
23	10.82	11.06	13.06	11.66	11.62	11.01E	10.86	10.76	10.61	10.53	10.65	10.96	23
24	10.89	11.05	12.97	11.67	11.35	10.99E	10.81	10.78	10.61	10.46	10.67	11.01	24
25	10.89	11.09	12.93	11.66	11.17	10.97E	10.78	10.71	10.64	10.52	10.65	10.99	25
26	10.88	11.14	12.93	11.65	11.20	10.95E	10.79	10.67	10.60	10.59	10.64	10.97	26
27	10.87	11.10	12.94	11.65	11.19	10.93E	10.76	10.72	10.64	10.58	10.57	11.01	27
28	10.87	11.10	12.94	11.63	11.20	10.91E	10.75	10.83	10.67	10.61	10.52	11.01	28
29	10.86	11.19	12.89	11.64		10.89E	10.76	10.88	10.61	10.70	10.54	11.04	29
30	10.86	11.25	12.87	11.65		10.87E	10.73	10.86	10.58	10.64	10.60	11.05	30
31	10.91		12.84	11.66		10.85E		10.91		10.56	10.58		31

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-12-70	1115	13.88									
12-21-70	2000	14.82									
2-10-71	1715	13.27									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC. T & R. M D B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950 1962	1962	96.24 86.23	USCGS USCGS

Station located 150 feet downstream from McSwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	48.42	48.26	50.52	51.58	50.17	49.18	48.90	48.22	48.98	47.77	47.31	47.45	1
2	48.42	48.26	50.75	51.46	50.09	49.22	48.76	48.28	49.00	47.62	47.26	47.47	2
3	48.43	48.10	50.96	51.39	50.02	49.26	48.62	48.40	48.80	47.55	47.28	47.65	3
4	48.45	48.22	50.94	51.27	49.96	49.33	48.51	48.41	48.59	47.47	47.26	47.53	4
5	48.45	48.60	50.75	51.18	49.88	49.34	48.61	48.49	48.44	47.53	47.18	47.53	5
6	48.30	48.76	50.50	51.12	49.79	49.12	48.71	48.57	48.28	47.61	47.15	47.76	6
7	48.20	48.90	50.37	50.99	49.74	48.89	48.73	48.68	48.30	47.62	47.10	47.70	7
8	48.14	48.97	50.22	51.00	49.74	48.95	48.83	48.93	48.22	47.50	47.11	47.66	8
9	48.27	49.01	50.17	50.96	49.72	48.96	48.82	49.33	48.02	47.42	47.17	47.56	9
10	48.50	48.90	50.06	50.54	50.31	48.99	48.79	49.47	47.90	47.39	47.15	47.58	10
11	48.56	48.79	49.90	50.06	50.78	49.11	48.83	49.20	48.01	47.56	47.17	47.72	11
12	48.61	48.79	50.04	49.89	50.88	49.06	48.90	48.81	47.97	47.58	47.12	47.70	12
13	48.42	48.91	50.69	49.87	50.90	49.25	48.87	48.78	47.96	47.51	47.22	47.79	13
14	48.22	48.88	50.78	49.95	50.48	49.38	49.01	48.70	47.99	47.51	47.25	47.65	14
15	48.14	48.81	50.99	50.08	49.91	49.60	49.09	48.57	47.95	47.43	47.08	47.58	15
16	48.16	49.02	51.13	50.10	49.73	49.64	49.37	48.38	47.97	47.38	47.26	47.56	16
17	48.03	48.85	51.23	50.05	49.63	49.69	49.67	48.40	48.01	47.28	47.26	47.59	17
18	47.90	48.80	51.28	50.36	49.55	49.69	49.74	48.19	47.91	47.35	47.28	47.67	18
19	47.85	48.76	51.36	50.84	49.54	49.47	49.55	48.12	47.81	47.54	47.19	47.58	19
20	47.83	48.76	51.81	50.99	49.56	49.39	49.30	48.13	47.79	47.44	47.17	47.51	20
21	47.97	48.74	52.15	51.02	49.47	49.34	49.00	48.10	47.76	47.50	47.25	47.41	21
22	48.12	48.77	52.62	50.94	49.48	49.26	48.66	48.16	47.72	47.31	47.29	47.51	22
23	48.25	48.75	53.03	50.90	49.53	49.16	48.57	48.22	47.68	47.16	47.45	47.58	23
24	48.28	48.71	52.97	50.90	49.54	49.09	48.55	48.29	47.62	47.27	47.49	47.56	24
25	48.26	48.76	52.86	50.85	49.37	49.19	48.42	48.23	47.58	47.32	47.47	47.55	25
26	48.30	48.85	52.53	50.71	49.19	49.35	48.45	48.17	47.66	47.38	47.44	47.52	26
27	48.33	48.98	52.18	50.56	49.15	49.60	48.39	48.18	47.66	47.36	47.42	47.59	27
28	48.37	49.15	51.94	50.45	49.15	49.77	48.27	48.36	47.82	47.30	47.31	47.68	28
29	48.20	49.55	51.81	50.34		49.65	48.22	48.60	47.75	47.21	47.28	47.70	29
30	48.13	50.19	51.76	50.26		49.37	48.18	48.79	47.79	47.23	47.42	47.76	30
31	48.18		51.69	50.29		49.13		48.88		47.22	47.57		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	1600	53.05									
1-21-71	0430	51.03									
2-13-71	1330	50.91									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 21 02	120 58 34	SW 3 7S 9E	34700a	65.90	2-26-69	APR 12-DATE		1912		47.24	USCGS
									1959	47.31	USCGS
								1959		0.00	USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 square miles. This station equipped with DWR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (33,300 cfs) includes flow in Merced River Slough.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	39.37	39.02	41.01	42.01	40.77	39.87	39.99	39.32	40.08	38.89	38.48	38.80	1
2	39.40	39.04	41.21	41.97	40.70	39.86	39.92	39.42	40.08	38.78	38.52	38.88	2
3	39.41	38.95	41.40	41.84	40.64	40.06	39.75	39.53	39.95	38.69	38.50	38.88	3
4	39.43	38.98	41.44	41.76	40.60	40.17	39.61	39.63	39.72	38.74	38.48	38.76	4
5	39.55	39.28	41.31	41.67	40.52	40.08	39.71	39.70	39.55	38.72	38.39	38.69	5
6	39.40	39.45	41.08	41.61	40.42	39.85	39.75	39.71	39.47	38.81	38.38	38.86	6
7	39.22	39.56	40.96	41.50	40.38	39.70	39.81	39.76	39.46	38.82	38.37	38.87	7
8	39.20	39.62	40.84	41.47	40.36	39.70	39.86	40.03	39.38	38.74	38.34	38.93	8
9	39.18	39.68	40.80	41.47	40.33	39.73	39.87	40.37	39.22	38.65	38.43	38.79	9
10	39.33	39.64	40.72	41.25	40.64	39.76	39.84	40.65	39.08	38.61	38.44	38.62	10
11	39.38	39.59	40.61	40.82	41.13	39.90	39.91	40.49	39.13	38.78	38.46	38.74	11
12	39.43	39.55	40.59	40.62	41.25	39.83	40.04	40.07	39.11	38.83	38.44	38.85	12
13	39.33	39.60	41.06	40.57	41.28	40.02	39.87	39.93	39.05	38.75	38.41	38.99	13
14	39.18	39.61	41.26	40.60	41.10	40.17	40.05	39.78	39.16	38.72	38.52	38.90	14
15	39.09	39.52	41.38	40.83	40.59	40.38	40.27	39.70	39.15	38.54	38.42	38.75	15
16	39.02	39.64	41.53	40.78	40.38	40.46	40.58	39.57	39.10	38.53	38.50	38.70	16
17	38.93	39.60	41.62	40.72	40.30	40.44	40.88	39.47	39.11	38.44	38.50	38.72	17
18	38.80	39.53	41.68	40.82	40.20	40.34	40.97	39.39	39.02	38.54	38.47	38.78	18
19	38.74	39.47	41.75	41.23	40.17	40.29	40.85	39.30	38.97	38.69	38.46	38.80	19
20	38.72	39.47	42.03	41.42	40.18	40.21	40.67	39.24	38.97	38.67	38.40	38.80	20
21	38.77	39.45	42.55	41.47	40.14	40.18	40.38	39.23	38.95	38.67	38.52	38.68	21
22	38.88	39.45	42.89	41.43	40.13	40.10	39.88	39.31	38.87	38.64	38.59	38.65	22
23	38.97	39.46	43.24	41.39	40.31	39.95	39.78	39.48	38.83	38.42	38.77	38.73	23
24	39.07	39.43	43.23	41.38	40.39	39.92	39.77	39.49	38.92	38.43	38.76	38.69	24
25	39.02	39.48	43.16	41.36	40.18	40.04	39.59	39.50	38.78	38.54	38.73	38.72	25
26	39.05	39.53	42.95	41.24	39.95	40.39	39.57	39.36	38.84	38.57	38.70	38.69	26
27	39.05	39.61	42.65	41.12	39.84	40.46	39.52	39.31	38.88	38.54	38.59	38.77	27
28	39.15	39.83	42.41	41.02	39.83	40.47	39.37	39.54	39.02	38.51	38.54	38.84	28
29	39.10	40.23	42.24	40.93		40.58	39.34	39.76	39.01	38.53	38.48	38.77	29
30	38.95	40.65	42.17	40.86		40.45	39.31	39.88	39.01	38.46	38.59	38.88	30
31	38.95		42.11	40.83		40.22		39.89		38.35	38.76		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	2100	43.27									
2-13-71	1600	41.30									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 26 52	121 00 44	NW 8 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	0.00	USED
								1959		0.00	USGS
								1959		3.51	USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	33.31E	32.77	34.85	35.95	34.65	33.64	33.75	32.90	33.60	32.5B	32.17	32.44	1
2	33.37E	32.79	35.12	35.90	34.57	33.61	33.73	33.07	33.65	32.52	32.28	32.47	2
3	33.44E	32.76	35.26	35.76	34.49	33.75	33.49	33.37	33.55	32.54	32.19	32.43	3
4	33.51E	32.75	35.36	35.68	34.44	34.10	33.23	33.55	33.40	32.61	32.15	32.40	4
5	33.58E	32.99	35.28	35.58	34.35	34.00	33.25	33.61	33.06	32.58	32.05	32.41	5
6	33.48	33.17	35.06	35.54	34.26	33.78	33.19	33.64	33.05	32.56	32.07	32.58	6
7	33.23	33.29	34.90	35.45	34.19	33.63	33.30	33.62	33.08	32.56	32.10	32.58	7
8	33.19	33.32	34.80	35.37	34.15	33.64	33.33	33.86	32.97	32.53	32.14	32.58	8
9	33.13	33.37	34.71	35.37	34.12	33.59	33.38	34.29	32.75	32.34	32.06	32.44	9
10	33.20	33.39	34.64	35.23	34.25	33.63	33.37	34.51	32.69	32.26	32.06	32.38	10
11	33.23	33.34	34.53	34.83	34.76	33.65	33.59	34.24	32.77	32.40	32.06	32.48	11
12	33.29	33.28	34.44	34.58	34.93	33.62	33.67	33.83	32.78	32.53	32.06	32.72	12
13	33.28	33.29	34.76	34.50	34.99	33.90	33.42	33.71	32.71	32.40	32.04	32.82	13
14	33.17	33.37	35.06	34.50	34.92	34.12	33.69	33.52	32.86	32.40	32.05	32.76	14
15	33.14	33.28	35.18	34.69	34.44	34.31	33.94	33.35	32.74	32.25	32.18	32.64	15
16	33.11	33.31	35.35	34.71	34.18	34.43	34.40	33.19	32.63	32.19	32.06	32.54	16
17	32.95	33.35	35.44	34.65	34.10	34.37	34.71	33.11	32.70	32.28	32.05	32.54	17
18	32.B0	33.24	35.51	34.67	34.02	34.08	34.88	33.03	32.66	32.34	32.04	32.56	18
19	32.72	33.20	35.64	35.03	33.95	34.05	34.70	33.04	32.61	32.41	32.04	32.64	19
20	32.67	33.18	35.84	35.28	33.91	33.87	34.47	33.03	32.66	32.37	32.04	32.74	20
21	32.63	33.17	36.32	35.34	33.92	33.83	34.18	33.09	32.59	32.33	32.13	32.64	21
22	32.71	33.15	36.76	35.33	33.89	33.73	33.73	33.09	32.42	32.36	32.39	32.57	22
23	32.75	33.16	37.14	35.29	33.95	33.57	33.64	33.30	32.40	32.22	32.53	32.65	23
24	32.88	33.16	37.18	35.27	34.10	33.59	33.48	33.29	32.57	32.08	32.41	32.74	24
25	32.82	33.21	37.12	35.25	33.97	33.71	33.29	33.14	32.53	32.19	32.33	32.78	25
26	32.83	33.27	36.98	35.15	33.71	34.20	33.21	33.03	32.58	32.19	32.32	32.78	26
27	32.83	33.29	36.69	35.02	33.59	34.34	33.21	32.90	32.71	32.13	32.29	32.83	27
28	32.88	33.53	36.41	34.90	33.61	34.33	33.12	33.19	32.83	32.14	32.28	32.82	28
29	32.91	34.22	36.21	34.81		34.43	33.07	33.35	32.83	32.23	32.29	32.77	29
30	32.76	34.48	36.10	34.74		34.38	33.08	33.49	32.69	32.11	32.33	32.79	30
31	32.74		36.04	34.70		34.09		33.49		32.06	32.36		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-24-70	0330	37.20									
1-21-71	1000	35.36									
2-13-71	2115	35.01									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38		APR 38-SEP 66	1938	1959	0.00	USED
				50.47a	6-13-38	OCT 69-DATE		1959		0.00	USCGS
			5460b	42.65	3- 9-70			1959		3.53	USED

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-69.

a Reflects present datum.
b Maximum discharge since station was rated in October 1969.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	67.30	66.62	68.38	71.94	71.56	69.85	68.80	67.61	67.35	67.25	67.42	66.46	1
2	67.64	66.61	68.39	72.14	71.60	69.36	69.17	67.62	67.36	67.27	67.42	66.46	2
3	67.39	66.60	68.85	72.14	71.16	69.37	68.58	67.54	67.37	67.28	67.46	66.46	3
4	67.27	66.63	70.74	71.92	71.02	69.37	68.50	67.52	67.36	67.28	67.51	66.45	4
5	67.26	66.65	72.12	70.88	71.25	69.44	69.61	67.50	67.35	67.28	67.86	66.36	5
6	67.26	66.66	72.12	70.09	71.34	70.01	69.38	67.50	67.35	67.28	67.41	66.38	6
7	67.27	66.67	71.27	70.09	71.19	70.12	69.22	67.51	67.35	67.28	67.40	66.45	7
8	67.29	66.92	70.10	70.10	71.30	69.55	69.05	67.57	67.36	67.27	67.38	66.45	8
9	67.28	68.00	69.57	70.10	71.08	69.36	68.97	67.32	67.36	67.37	67.40	66.45	9
10	67.27	68.45	69.47	70.02	71.08	69.42	68.47	67.45	67.37	67.46	67.47	66.45	10
11	67.10	68.44	69.56	70.09	71.34	69.40	68.47	67.41	67.36	67.45	67.42	66.42	11
12	67.09	68.44	69.91	70.74	71.03	69.39	69.07	67.40	67.36	67.43	67.39	66.35	12
13	67.16	68.42	70.15	72.01	69.41	69.64	68.62	67.38	67.34	67.51	67.39	66.33	13
14	67.17	68.42	70.41	71.93	69.62	69.93	68.23	67.38	67.34	67.43	67.38	66.40	14
15	67.16	68.41	70.58	71.81	71.21	69.76	68.17	67.38	67.35	67.36	67.38	66.40	15
16	66.92	68.36	70.81	71.28	71.28	69.50	68.10	67.37	67.35	67.37	66.99	66.40	16
17	67.05	68.37	71.59	71.06	71.19	69.39	68.09	67.37	67.34	67.39	66.65	66.39	17
18	67.04	68.37	71.80	71.06	71.16	69.36	68.09	67.38	67.35	67.36	66.52	66.38	18
19	67.27	68.37	71.90	71.08	71.14	68.88	68.12	67.38	67.33	67.37	66.51	66.35	19
20	67.02	68.38	71.88	71.09	71.17	68.48	68.11	67.38	67.32	67.42	66.51	66.40	20
21	66.94	68.38	71.81	71.14	71.10	68.56	68.11	67.50	67.32	67.42	66.41	66.38	21
22	66.88	68.39	71.81	71.34	70.75	68.56	68.11	67.39	67.34	67.40	66.39	66.37	22
23	66.85	68.39	71.81	71.72	70.91	68.49	68.10	67.37	67.35	67.40	66.40	66.37	23
24	66.82	68.40	71.91	71.52	70.82	68.55	68.10	67.67	67.32	67.39	66.45	66.40	24
25	66.78	68.40	71.97	71.16	70.59	68.54	68.09	67.46	67.30	67.38	66.45	66.40	25
26	66.74	68.40	72.02	70.80	70.44	68.54	68.08	67.38	67.29	67.38	66.80	66.40	26
27	66.72	68.40	72.05	70.43	69.68	68.19	68.09	67.38	67.26	67.40	66.46	66.40	27
28	66.69	68.40	72.06	70.22	69.89	68.32	68.10	67.37	67.26	67.41	66.45	66.40	28
29	66.67	68.39	71.63	70.25		68.51	68.09	67.36	67.26	67.42	66.45	66.40	29
30	66.65	68.39	71.54	71.05		68.48	68.09	67.35	67.23	67.41	66.45	66.53	30
31	66.64		71.65	70.99		68.46		67.34		67.42	66.46		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

a - SEE (a) BELOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-28-70	2015	72.32									
2- 1-71	1900	72.42a									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 59	120 27 40	NW20 3S 14E		88.0	12- 8-50	OCT 36-SEP 60		1937		1.76	USGS
			52200	86.29	1-26-69	OCT 61-DATE					

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles. To change gage height to elevation add 100 feet.

a The annual maximum gage height of 72.42 does not represent the maximum discharge, which occurred at gage height 72.32 feet on 12-29-70.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	69.79	69.75	70.52	72.78	72.23	71.58	70.54	70.06	69.69	69.59	69.61	69.62	1
2	69.79	69.75	70.54	73.07	72.79	71.24	70.84	69.89	69.68	69.58	69.62	69.58	2
3	69.92	69.75	70.53	73.07	72.43	71.17	70.89	69.86	69.67	69.59	69.58	69.61	3
4	69.91	69.78	71.41	72.98	72.18	71.16	70.62	69.83	69.68	69.62	69.59	69.63	4
5	69.82	69.77	72.82	72.63	72.29	71.15	70.69	69.79	69.68	69.62	69.59	69.63	5
6	69.78	69.78	73.06	71.67	72.32	71.34	71.31	69.78	69.70	69.60	69.87	69.62	6
7	69.76	69.78	72.86	71.62	72.31	71.59	71.15	69.78	69.69	69.59	69.67	69.60	7
8	69.75	69.77	71.94	71.60	72.30	71.48	70.99	69.85	69.66	69.57	69.63	69.61	8
9	69.76	69.75	71.35	71.60	72.25	71.15	70.92	69.84	69.63	69.57	69.61	69.60	9
10	69.77	70.16	71.35	71.57	72.20	71.16	70.80	69.91	69.65	69.59	69.62	69.61	10
11	69.78	70.47	71.27	71.58	72.31	71.17	70.52	69.79	69.68	69.64	69.63	69.63	11
12	69.77	70.49	71.42	71.58	72.35	71.28	70.56	69.74	69.68	69.66	69.65	69.65	12
13	69.75	70.49	71.57	72.87	71.52	71.48	70.93	69.75	69.66	69.64	69.61	69.64	13
14	69.78	70.48	71.75	72.88	71.16	71.71	70.47	69.74	69.64	69.63	69.61	69.57	14
15	69.96	70.48	71.92	72.92	72.00	71.72	70.30	69.70	69.60	69.64	69.62	69.58	15
16	69.79	70.46	71.89	72.53	72.32	71.33	70.21	69.69	69.60	69.62	69.61	69.59	16
17	69.77	70.44	72.58	72.19	72.28	71.24	70.25	69.71	69.61	69.60	69.59	69.60	17
18	69.75	70.44	72.72	72.20	72.28	71.16	70.60	69.72	69.63	69.60	69.64	69.61	18
19	69.75	70.44	72.90	72.20	72.22	71.12	70.62	69.71	69.64	69.60	69.66	69.62	19
20	69.78	70.44	72.88	72.20	72.26	70.62	70.63	69.71	69.65	69.61	69.65	69.62	20
21	69.78	70.45	72.90	72.23	72.21	70.56	70.39	69.70	69.65	69.60	69.68	69.60	21
22	69.78	70.45	72.82	72.25	72.07	70.63	70.12	69.70	69.64	69.60	69.72	69.60	22
23	69.77	70.45	72.81	72.65	72.11	70.57	70.12	69.72	69.64	69.60	69.65	69.60	23
24	69.76	70.45	72.81	72.62	72.05	70.59	70.09	69.68	69.63	69.60	69.59	69.61	24
25	69.75	70.51	72.94	72.35	72.01	70.80	70.08	69.80	69.63	69.61	69.56	69.61	25
26	69.74	70.48	72.99	72.12	71.87	70.98	70.08	69.78	69.65	69.59	69.58	69.62	26
27	69.73	70.47	73.01	71.87	71.47	70.94	70.07	69.73	69.65	69.58	69.82	69.63	27
28	69.73	70.50	72.98	71.68	71.60	70.80	70.08	69.78	69.64	69.58	69.69	69.62	28
29	69.73	70.55	72.95	71.60		70.65	70.08	69.69	69.61	69.60	69.65	69.62	29
30	69.73	70.53	72.62	72.03		70.56	70.08	69.68	69.60	69.61	69.65	69.62	30
31	69.74		72.63	72.14		70.53		69.70		69.62	69.63		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12- 7-70	0500	73.08	12-25-70	0230	73.10	2-2-71	0500	73.05			
12-17-70	1345	73.13	12-29-70	0900	73.23						
12-21-70	1200	73.04	1-15-71	1400	73.06						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36 JAN 37-MAR 37 JUL 37-FEB 38 JUL 38-DEC 38 MAR 39-DATE		1932		-1.13	USCGS

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.30	67.55	70.12	68.01	67.72	67.61	68.74	68.46	68.39	68.15	68.00	68.10	1
2	68.30	67.55	69.97	68.00	67.71	67.60	68.12	68.37	68.33	68.07	68.02	68.20	2
3	68.22	67.55	71.52	67.97	67.70	67.61	68.09	68.51	68.38	68.08	67.95	68.20	3
4	68.26	67.64	69.52	67.97	67.69	67.60	68.15	68.41	68.36	68.15	67.93	68.14	4
5	68.35	67.81	68.88	68.02	67.68	67.60	68.32	68.61	68.43	68.15	68.00	68.19	5
6	68.23	67.95	69.15	67.93	67.67	67.60	68.49	68.55	68.50	68.20	68.00	68.24	6
7	68.40	68.18	68.55	67.88	67.67	67.61	68.68	68.44	68.41	68.14	68.02	68.21	7
8	68.40	68.10	68.28	67.86	67.67	67.80	68.56	68.69	68.51	68.10	68.04	68.24	8
9	68.53	67.88	68.14	67.84	67.66	68.00	68.56	68.85	68.42	68.08	68.03	68.18	9
10	68.51	67.74	68.06	67.81	67.66	67.83	68.69	68.47	68.36	68.06	67.98	68.18	10
11	68.39	67.66	68.07	67.80	67.65	68.00	68.64	68.30	68.31	68.04	68.07	68.17	11
12	68.34	67.61	68.07	67.83	67.65	68.07	68.50	68.12	68.22	68.04	68.01	68.15	12
13	68.33	67.57	67.99	67.85	67.65	68.58	68.50	68.18	68.18	67.95	67.97	68.21	13
14	68.38	67.66	67.92	68.89	67.65	68.47	68.61	68.21	68.26	67.92	67.95	68.22	14
15	68.43	67.67	67.87	71.84	67.64	68.12	68.71	68.17	68.33	67.97	67.95	68.12	15
16	68.51	67.64	67.84	69.37	67.63	68.02	68.62	68.25	68.36	68.00	68.11	68.18	16
17	68.48	67.62	67.82	68.67	67.64	67.91	68.63	68.42	68.40	68.04	68.06	68.22	17
18	68.41	67.61	68.34	68.38	67.63	67.87	69.13	68.32	68.30	68.04	68.09	68.19	18
19	68.26	67.58	68.60	68.23	67.63	67.79	68.79	68.19	68.30	68.05	68.13	68.23	19
20	68.06	67.65	70.66	68.12	67.62	67.88	68.65	68.18	68.16	68.03	68.05	68.23	20
21	67.91	67.67	69.48	68.04	67.63	68.02	68.62	68.11	68.15	68.01	68.07	68.12	21
22	67.81	67.61	71.82	67.97	67.63	67.88	68.42	68.15	68.21	68.04	68.06	68.23	22
23	67.73	67.59	70.28	67.92	67.62	68.10	68.32	68.13	68.12	67.97	68.11	68.37	23
24	67.67	67.56	68.98	67.87	67.62	68.25	68.33	68.18	68.08	67.95	68.10	68.30	24
25	67.64	67.65	68.55	67.85	67.62	68.38	68.25	68.24	68.15	67.90	68.16	68.49	25
26	67.63	67.89	68.33	67.83	67.62	69.17	68.52	68.21	68.35	68.01	68.18	68.49	26
27	67.63	67.87	68.20	67.80	67.62	69.10	68.58	68.28	68.31	68.02	68.17	68.46	27
28	67.57	68.15	68.13	67.78	67.62	68.53	68.46	68.47	68.40	68.05	68.25	68.49	28
29	67.57	70.82	68.17	67.77		68.31	68.46	68.50	68.27	68.01	68.25	68.40	29
30	67.57	71.68	68.12	67.75		68.17	68.52	68.52	68.25	68.02	68.20	68.32	30
31	67.57		68.04	67.74		68.33		68.42		68.00	68.19		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
11-29-70	2030	71.86									
12-22-70	1245	72.79									
1-15-71	0520	72.89									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941 records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1971	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.16	41.00	41.74	42.98	42.41	42.04	41.48	41.27	41.15	41.05	41.06	41.08	1
2	41.14	41.00	41.67	43.39	42.94	41.90	41.52	41.27	41.15	41.05	41.08	41.08	2
3	41.14	41.00	41.87	43.61	42.86	41.74	41.65	41.25	41.16	41.08	41.04	41.06	3
4	41.20	41.08	41.82	43.62	42.52	41.72	41.50	41.24	41.16	41.10	41.04	41.07	4
5	41.17	41.06	42.52	43.29	42.45	41.71	41.46	41.24	41.15	41.13	41.06	41.09	5
6	41.15	41.08	43.52	42.41	42.54	41.74	41.82	41.22	41.19	41.09	41.08	41.09	6
7	41.16	41.10	43.59	42.06	42.59	41.94	41.87	41.18	41.15	41.07	41.11	41.07	7
8	41.15	41.09	42.65	42.03	42.52	42.03	41.79	41.25	41.16	41.05	41.08	41.07	8
9	41.19	41.05	42.05	42.02	42.60	41.83	41.71	41.34	41.14	41.04	41.07	41.08	9
10	41.20	41.04	41.85	42.01	42.47	41.73	41.67	41.28	41.13	41.06	41.06	41.08	10
11	41.20	41.25	41.80	41.98	42.48	41.75	41.53	41.28	41.13	41.06	41.07	41.08	11
12	41.16	41.31	41.82	41.99	42.60	41.81	41.48	41.16	41.14	41.08	41.05	41.08	12
13	41.17	41.32	41.93	42.57	42.36	42.07	41.62	41.17	41.16	41.07	41.07	41.08	13
14	41.17	41.32	42.03	43.39	41.82	42.25	41.61	41.15	41.14	41.07	41.08	41.11	14
15	41.35	41.33	42.15	44.12	41.93	42.32	41.44	41.13	41.11	41.08	41.08	41.08	15
16	41.31	41.32	42.19	43.35	42.50	42.23	41.37	41.13	41.11	41.09	41.10	41.08	16
17	41.20	41.30	42.52	42.67	42.57	42.09	41.37	41.16	41.09	41.07	41.10	41.11	17
18	41.15	41.30	42.88	42.51	42.53	41.95	41.61	41.16	41.08	41.14	41.09	41.09	18
19	41.12	41.30	43.24	42.49	42.50	41.81	41.66	41.13	41.11	41.13	41.12	41.08	19
20	41.10	41.30	43.69	42.49	42.51	41.61	41.67	41.13	41.12	41.06	41.09	41.11	20
21	41.07	41.31	43.64	42.49	42.50	41.47	41.65	41.12	41.08	41.05	41.10	41.08	21
22	41.05	41.31	43.84	42.51	42.47	41.44	41.39	41.14	41.09	41.05	41.13	41.08	22
23	41.03	41.30	43.69	42.71	42.37	41.47	41.32	41.14	41.10	41.04	41.15	41.10	23
24	41.02	41.30	43.34	42.95	42.39	41.46	41.28	41.17	41.09	41.05	41.07	41.10	24
25	41.01	41.36	43.38	42.75	42.35	41.57	41.27	41.13	41.10	41.08	41.06	41.14	25
26	41.00	41.36	43.47	42.50	42.23	41.90	41.30	41.16	41.13	41.09	41.07	41.14	26
27	41.00	41.35	43.50	42.31	42.11	41.91	41.30	41.14	41.12	41.04	41.11	41.16	27
28	41.00	41.47	43.51	42.14	41.94	41.78	41.28	41.21	41.11	41.04	41.14	41.14	28
29	40.99	41.70	43.60	42.07		41.73	41.29	41.19	41.09	41.03	41.12	41.14	29
30	40.99	41.89	43.09	42.13		41.65	41.29	41.18	41.07	41.09	41.14	41.15	30
31	40.99		42.89	42.41		41.54		41.17		41.06	41.07		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12- 6-70	2200	43.61	2-2-71	2200	43.33						
12-22-70	2000	44.18									
1-15-71	1330	44.24									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 37 38	120 59 20	SW33 3S 9E	57000	69.19	12-9-50	JAN 95-DEC 96	1878-1884	1940		0.00	USCGS
						MAR 40-DATE	1891-1894				

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	23.30	22.98	24.75	28.35	27.07	25.86	24.22	23.42	23.14	22.90	22.83	22.92	1
2	23.38	22.98	24.40	28.75	27.61	25.68	24.28	23.52	23.09	22.90	22.85	22.90	2
3	23.32	22.98	24.68	29.12	28.20	25.16	24.43	23.50	23.13	22.87	22.81	22.87	3
4	23.35	23.13	24.70	29.15	27.63	24.98	24.38	23.45	23.15	22.98	22.77	22.87	4
5	23.41	23.12	25.76	28.94	27.25	24.91	24.13	23.41	23.13	23.03	22.83	22.92	5
6	23.35	23.09	28.26	27.90	27.44	24.87	24.59	23.39	23.16	22.93	22.85	22.90	6
7	23.36	23.17	28.85	26.45	27.56	25.33	25.22	23.33	23.13	22.89	22.96	22.88	7
8	23.35	23.15	28.15	26.19	27.44	25.73	25.08	23.42	23.14	22.88	22.90	22.89	8
9	23.36	23.11	26.60	26.11	27.52	25.45	24.85	23.70	23.13	22.90	22.89	22.90	9
10	23.44	23.04	25.51	26.03	27.33	24.97	24.64	23.56	23.05	22.94	22.84	22.87	10
11	23.44	23.22	25.28	25.94	27.27	24.94	24.49	23.57	23.06	22.90	22.81	22.89	11
12	23.36	23.53	25.17	25.93	27.50	25.00	24.22	23.32	23.08	22.92	22.79	22.86	12
13	23.30	23.60	25.43	26.48	27.37	25.61	24.26	23.21	23.06	22.94	22.80	22.83	13
14	23.34	23.62	25.69	28.45	25.76	26.15	24.61	23.19	23.08	22.89	22.84	22.87	14
15	23.49	23.63	26.05	29.28	25.30	26.55	24.21	23.19	22.98	22.85	22.88	22.84	15
16	23.78	23.63	26.39	29.13	26.86	26.54	23.95	23.14	22.98	22.88	22.89	22.85	16
17	23.53	23.61	26.63	28.13	27.39	26.03	23.96	23.19	22.97	22.86	22.85	22.87	17
18	23.38	23.59	27.89	27.51	27.34	25.75	24.25	23.20	22.97	23.00	22.85	22.91	18
19	23.30	23.58	28.49	27.40	27.34	25.28	24.59	23.18	22.97	22.95	22.89	22.90	19
20	23.25	23.58	28.93	27.38	27.26	24.88	24.65	23.15	23.02	22.87	22.90	22.90	20
21	23.18	23.60	29.18	27.35	27.30	24.35	24.63	23.15	22.95	22.80	22.91	22.92	21
22	23.14	23.60	29.17	27.41	27.23	24.17	24.21	23.18	22.94	22.80	22.98	22.86	22
23	23.10	23.58	29.39	27.58	26.90	24.13	23.78	23.08	22.99	22.81	23.06	22.88	23
24	23.08	23.58	28.97	28.21	26.98	24.12	23.66	23.12	22.99	22.83	22.90	22.91	24
25	23.05	23.68	28.91	28.10	26.88	24.23	23.57	23.13	22.97	22.95	22.85	22.92	25
26	23.02	23.71	29.01	27.58	26.67	25.08	23.57	23.10	22.97	22.90	22.88	22.99	26
27	23.02	23.69	29.07	27.08	26.37	25.40	23.64	23.10	23.05	22.85	22.98	23.03	27
28	23.01	23.86	29.08	26.57	25.70	25.15	23.52	23.17	23.01	22.82	23.03	23.00	28
29	23.00	24.43	29.06	26.22		24.91	23.51	23.22	23.03	22.80	23.03	22.96	29
30	22.99	24.86	28.76	26.11		24.73	23.47	23.17	22.98	22.86	23.02	23.01	30
31	22.98		28.36	26.92		24.48		23.18		22.82	22.91		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	0300	29.60									
1-15-71	2400	29.60									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF DATUM
37 36 12	121 07 50	NW 7 4S 8E		46.65	12- 9-50	1930-DATE			1959	0.00	USED
				43.15a	12- 9-50			1960		0.00	USCGS
			37900b	42.86	1-27-69			1960		3.50	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a Reflects present datum.

b Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	807040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	14.92	14.24	16.80	19.50	18.11	16.40	15.72	14.49	14.89	14.54	13.63	13.86	1
2	14.93	14.25	16.75	19.60	18.21	16.35	15.61	14.69	14.86	14.19	13.60	13.90	2
3	14.98	14.26	16.96	19.75	18.65	16.08	15.57	14.97	14.76	14.05	13.57	13.83	3
4	15.03	14.31	17.10	19.78	18.44	16.07	15.49	15.06	14.69	14.12	13.55	13.89	4
5	15.13	14.43	17.28	19.69	18.14	16.07	15.18	15.15	14.53	14.23	13.43	13.86	5
6	15.18	14.58	18.54	19.33	18.11	15.87	15.12	15.16	14.38	14.08	13.43	13.87	6
7	15.08	14.74	19.13	18.47	18.15	15.95	15.64	15.01	14.46	13.98	13.53	13.87	7
8	15.00	14.78	19.08	18.11	18.13	16.18	15.65	15.12	14.46	13.97	13.56	13.83	8
9	14.90	14.77	18.26	18.01	18.07	16.07	15.56	15.62	14.38	13.97	13.57	13.89	9
10	14.97	14.75	17.32	17.95	18.05	15.70	15.49	15.79	14.45	13.95	13.42	13.78	10
11	14.96	14.77	16.82	17.78	18.10	15.68	15.59	15.64	14.84	13.97	13.39	13.81	11
12	14.96	14.94	16.86	17.58	18.34	15.73	15.45	15.28	14.87	14.06	13.35	14.04	12
13	14.95	14.95	17.13	17.56	18.46	16.15	15.19	15.01	14.79	13.97	13.35	14.10	13
14	14.98	15.02	17.50	18.54	17.85	16.57	15.52	14.91	14.80	13.87	13.46	13.98	14
15	15.08	15.02	17.76	19.18	17.20	17.06	15.71	14.70	15.13	13.87	13.69	13.86	15
16	15.22	14.98	18.04	19.43	17.50	17.18	15.62	14.55	15.38	13.85	13.71	13.76	16
17	15.08	15.02	18.17	18.93	17.96	16.88	15.88	14.57	15.29	13.85	13.62	13.79	17
18	14.77	14.96	17.81	18.50	17.95	16.57	16.18	14.74	15.14	13.85	13.48	13.84	18
19	14.58	14.89	19.26	18.45	17.92	16.22	16.28	14.75	15.31	13.89	13.52	13.87	19
30	14.48	14.86	19.57	18.55	17.81	16.01	16.23	14.70	15.54	13.85	13.64	14.04	20
21	14.38	14.86	19.99	18.60	17.83	15.65	16.06	14.47	15.44	13.83	13.56	14.05	21
22	14.35	14.86	20.17	18.63	17.77	15.56	15.59	14.50	15.04	13.82	13.82	13.92	22
23	14.35	14.87	20.49	18.66	17.63	15.40	15.13	14.49	14.98	13.82	13.94	13.96	23
24	14.39	14.87	20.41	18.96	17.50	15.41	15.01	14.58	14.77	13.82	13.86	14.22	24
25	14.40	14.96	20.30	19.02	17.35	15.54	14.89	14.47	14.68	13.81	13.73	14.24	25
26	14.35	15.05	20.32	18.79	17.12	16.39	14.71	14.31	14.86	13.80	13.65	14.30	26
27	14.33	15.04	20.27	18.45	16.81	16.82	14.67	14.24	14.84	13.78	13.81	14.38	27
28	14.32	15.17	20.15	18.12	16.47	16.77	14.65	14.43	15.44	13.75	13.81	14.38	28
29	14.37	16.05	20.04	17.82		16.59	14.54	14.74	16.25	13.72	13.96	14.27	29
30	14.32	16.79	19.94	17.66		16.44	14.49	14.90	14.84	13.70	13.94	14.35	30
21	14.24		19.63	17.90		16.14		14.97		13.66	13.90		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	1400	20.55									
1-16-71	0730	19.53									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E		38.31a	1-27-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
								1959		3.41	USED

Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions.

a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.30	2.16	4.59	5.98	5.78	3.43	2.01	1.75	1.64	2.94	1.34	1.53	1
2	1.32	2.17	4.75	6.00	5.78	3.39	1.90	1.75	1.58	2.82	1.38	1.48	2
3	1.34	2.18	4.16	5.98	5.77	3.36	1.75	1.77	1.54	2.08	1.36	1.44	3
4	1.31	2.22	5.35	5.97	5.77	3.51	1.74	1.76	1.54	2.49	1.34	1.43	4
5	1.37	2.21	6.11	5.96	5.76	3.70	1.82	2.04	1.56	1.83	1.35	1.38	5
6	1.40	2.20	6.08	5.95	5.75	3.66	1.67	2.78	1.57	1.60	1.36	1.36	6
7	1.38	2.23	6.06	5.94	5.75	3.44	1.60	2.82	1.94	1.55	1.34	1.53	7
8	1.35	2.19	6.05	5.94	5.75	3.52	1.52	3.23	4.92	1.52	1.38	1.60	8
9	1.34	2.18	3.19	5.92	5.74	3.56	1.65	3.64	5.56	1.45	1.35	1.46	9
10	1.34	2.18	3.62	5.91	5.74	3.42	1.92	3.82	6.41	1.40	1.36	1.40	10
11	1.47	2.16	6.08	5.90	5.74	3.43	1.88	3.45	5.17	1.41	1.41	1.38	11
12	1.43	2.19	6.08	5.90	5.73	3.22	1.83	3.04	5.14	1.40	1.40	1.41	12
13	1.37	2.17	6.08	5.97	5.73	2.67	1.68	2.88	5.45	1.37	1.41	1.40	13
14	1.37	2.17	6.07	6.17	5.72	3.05	1.67	2.84	7.28	1.36	1.41	1.39	14
15	1.57	2.16	6.06	5.94	5.72	3.18	1.78	3.05	6.95	1.36	1.40	1.36	15
16	2.28	2.17	6.08	5.91	5.71	3.43	1.80	5.09	6.32	1.36	1.38	1.40	16
17	2.30	2.17	6.08	5.88	5.71	3.32	1.81	5.41	6.15	1.35	1.42	1.33	17
18	2.41	2.17	6.08	5.88	5.71	3.23	1.72	5.38	7.17	1.35	1.42	1.36	18
19	2.66	2.18	6.22	5.60	5.71	3.27	1.80	4.21	6.42	1.36	1.42	1.42	19
20	2.35	2.58	6.11	5.85	5.70	3.47	1.75	2.86	6.04	1.37	1.47	1.39	20
21	2.32	3.44	6.30	5.85	5.69	3.66	1.65	2.59	5.79	1.36	1.50	1.38	21
22	2.32	3.48	6.15	5.85	5.62	3.67	1.69	1.84	5.61	1.35	1.48	1.41	22
23	2.32	3.48	6.08	5.85	4.20	3.47	2.68	1.71	4.96	1.35	1.46	1.40	23
24	2.33	3.44	6.06	5.84	3.50	3.45	2.80	1.64	4.88	1.36	1.48	1.40	24
25	2.32	3.50	6.05	5.83	3.43	3.23	2.79	1.65	4.71	1.35	1.45	1.40	25
26	2.28	3.63	6.04	5.82	3.39	2.32	2.63	1.64	4.04	1.32	1.47	1.45	26
27	1.93	3.76	6.03	5.82	3.38	2.93	1.80	1.65	7.84	1.31	1.45	1.49	27
28	1.90	4.58	6.01	5.81	3.41	2.97	1.72	1.71	6.09	1.32	1.48	1.62	28
29	1.88	4.97	6.00	5.80		2.92	1.77	3.54	3.21	1.38	1.51	1.92	29
30	1.88	4.57	6.00	5.80		2.98	1.78	2.98	3.74	1.33	1.54	2.00	30
31	2.10		5.99	5.79		2.65		1.81		1.33	1.55		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
6-27-71	1630	10.23									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 39 APR 40-DATE				117.21	USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B03125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	37.00	36.46	41.26	43.34	43.01	39.01	38.47	37.31	38.17	40.17	36.50	36.73	1
2	37.05	36.57	41.16	43.38	43.00	38.99	38.12	37.43	37.84	39.31	36.66	36.64	2
3	36.94	36.60	41.47	43.38	42.98	38.93	37.93	37.53	37.64	39.00	36.78	36.62	3
4	36.90	36.70	40.36	43.33	42.98	39.07	37.68	37.61	37.49	38.35	36.39	36.77	4
5	36.94	36.82	41.88	43.30	42.98	39.32	37.67	37.59	37.66	38.47	36.41	36.85	5
6	36.87	36.86	42.95	43.28	42.97	39.58	37.29	37.79	37.86	37.82	36.52	36.96	6
7	36.65	36.99	43.04	43.27	42.95	39.48	37.30	38.15	37.76	37.49	36.47	36.89	7
8	36.83	37.17	43.09	43.26	42.93	39.43	37.20	38.69	37.82	37.50	36.60	36.58	8
9	36.74	36.83	42.67	43.25	42.92	39.57	37.28	39.47	40.71	37.34	36.64	36.53	9
10	36.50	36.71	39.36	43.20	42.91	39.25	37.33	39.47	42.45	37.10	36.57	36.51	10
11	36.59	36.68	39.97	43.19	42.91	39.09	37.49	39.55	43.37	37.06	36.53	36.73	11
12	36.72	36.64	42.72	43.19	42.90	39.00	37.50	39.25	42.10	37.15	36.47	36.76	12
13	37.16	36.63	43.07	43.20	42.88	39.19	37.55	38.76	41.99	37.06	36.52	36.74	13
14	37.17	36.62	43.14	43.41	42.87	38.46	37.61	38.48	42.95	37.03	36.71	36.57	14
15	37.58	36.61	43.18	43.55	42.86	38.63	37.31	38.20	45.46	36.91	36.78	36.49	15
16	38.11	36.60	43.23	43.28	42.85	38.79	37.57	38.69	45.42	36.72	36.55	36.58	16
17	38.20	36.60	43.30	43.22	42.85	39.16	37.73	41.42	44.43	36.86	36.68	36.44	17
18	37.57	36.59	43.30	43.20	42.82	39.27	37.87	42.18	44.19	37.22	36.54	36.34	18
19	37.42	36.60	43.42	43.18	42.84	39.30	37.96	42.17	45.43	36.94	36.32	36.37	19
20	37.52	36.60	43.66	42.82	42.81	39.22	37.85	40.58	44.58	36.82	36.50	36.34	20
21	37.17	36.92	43.50	43.10	42.78	39.24	37.66	38.89	43.97	36.59	36.37	36.52	21
22	37.03	37.96	43.86	43.13	42.79	39.64	37.27	38.41	43.34	36.55	36.74	37.02	22
23	36.95	38.25	43.59	43.12	42.40	39.53	37.36	37.77	42.95	36.49	37.10	37.21	23
24	36.94	38.34	43.45	43.11	40.45	39.42	37.98	37.50	41.78	36.73	37.01	37.04	24
25	36.90	38.42	43.38	43.08	39.54	39.34	38.31	37.38	41.92	36.87	36.66	37.03	25
26	36.88	38.63	43.38	43.08	39.25	39.77	38.23	37.11	41.35	37.09	36.60	37.44	26
27	36.84	38.78	43.38	43.08	39.12	39.46	38.01	37.16	41.20	36.91	36.38	37.94	27
28	36.61	39.03	43.37	43.07	39.07	39.60	37.58	37.75	46.98	36.88	36.58	37.98	28
29	36.47	41.34	43.37	43.06		39.56	37.42	37.72	44.68	36.85	36.65	37.74	29
30	36.39	42.18	43.36	43.04		39.12	37.44	39.09	40.44	36.52	36.85	37.85	30
31	36.36		43.35	43.03		39.05		39.08		36.36	36.79		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12- 9-70	0100	43.12	6-11-71	0330	44.10	6-28-71	2300	48.97			
12-22-70	1130	43.92	6-16-71	0030	45.92						
5-19-71	0700	42.29	6-19-71	0830	45.78						

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 43 50	121 06 35	SE29 2S 8E	62500	63.25	12-24-55	APR 40-DATE		1940		0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B03115	STANISLAUS RIVER AT KOETITZ RANCH

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28.08	27.47	32.48	34.12	33.82	30.22	29.69	28.36	29.55	31.67	27.70	27.72	1
2	28.28	27.61	32.18	34.14	33.81	30.17	29.46	28.71	29.06	30.72	27.80	27.59	2
3	28.19	27.64	32.59	34.13	33.80	30.12	29.18	28.75	28.82	30.34	27.75	27.61	3
4	28.14	27.75	32.59	34.11	33.79	30.18	28.90	28.68	28.60	29.83	27.52	27.55	4
5	28.16	27.86	32.52	34.09	33.80	30.41	28.85	28.62	28.74	29.94	27.40	27.88	5
6	28.29	27.92	33.76	34.08	33.79	30.68	28.51	28.76	29.14	29.24	27.48	27.96	6
7	28.11	27.96	33.88	34.06	33.77	30.64	28.50	29.18	28.93	28.80	27.52	28.04	7
8	28.19	28.23	33.93	34.05	33.75	30.55	28.40	29.88	28.60	28.81	27.46	27.64	8
9	28.24	27.95	33.80	34.04	33.75	30.70	28.49	30.72	31.37	28.75	27.46	27.46	9
10	28.11	27.78	31.06	34.00	33.74	30.44	28.39	30.74	33.05	28.52	27.54	27.37	10
11	28.15	27.73	30.61	33.98	33.73	30.26	28.69	30.67	34.20	28.39	27.60	27.62	11
12	28.15	27.71	33.36	33.97	33.72	30.15	28.70	30.47	33.24	28.38	27.57	27.78	12
13	28.40	27.69	33.87	33.98	33.70	30.41	28.58	30.03	33.07	28.33	27.50	27.66	13
14	28.43	27.68	33.97	34.11	33.70	29.72	28.78	29.64	33.62	28.15	27.91	27.33	14
15	28.63	27.67	34.00	34.33	33.68	29.76	28.48	29.27	35.82	28.14	28.12	27.24	15
16	29.18	27.66	34.05	34.08	33.68	29.78	28.72	29.68	36.06	27.90	27.75	27.38	16
17	29.44	27.65	34.11	34.01	33.68	30.34	28.91	32.00	35.25	27.83	27.75	27.34	17
18	28.78	27.65	34.12	33.98	33.65	30.36	29.14	33.02	34.89	28.34	27.69	27.42	18
19	28.51	27.65	34.20	33.96	33.66	30.53	29.20	33.11	35.96	28.10	27.38	27.35	19
20	28.62	27.65	34.42	33.67	33.65	30.52	29.17	32.04	35.42	27.87	27.52	27.34	20
21	28.25	27.80	34.30	33.84	33.61	30.35	29.01	30.36	34.94	27.59	27.57	27.45	21
22	28.10	28.77	34.58	33.89	33.62	30.82	28.46	29.78	34.27	27.53	27.75	27.68	22
23	28.01	29.22	34.42	33.89	33.43	30.75	28.49	29.05	34.00	27.44	28.20	28.28	23
24	27.98	29.36	34.25	33.87	31.92	30.73	29.02	28.71	33.05	27.62	28.20	28.19	24
25	27.94	29.46	34.18	33.86	30.96	30.61	29.47	28.50	32.94	27.75	27.77	28.23	25
26	27.90	29.65	34.17	33.85	30.60	31.15	29.50	28.40	32.70	28.18	27.73	28.49	26
27	27.87	29.86	34.17	33.84	30.40	30.83	29.23	28.31	32.14	28.00	27.46	29.01	27
28	27.69	29.95	34.16	33.84	30.31	30.88	28.70	28.78	36.46	28.00	27.60	29.33	28
29	27.52	31.97	34.15	33.84		30.95	28.38	28.97	36.25	27.87	27.85	29.06	29
30	27.45	33.48	34.15	33.83		30.50	28.39	30.01	31.84	27.61	28.00	29.11	30
31	27.42		34.13	33.82		30.37		30.42		27.50	27.93		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-22-70	1500	34.66									
6-16-71	0400	36.42									
6-29-71	0140	38.85									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	-0.63	USC&GS
								1963		0.37	USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates road junction, 3.7 miles southwest of Ripon.

TABLE B-9 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1971	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.19	10.53	13.44	15.88	14.73	12.56	11.92	10.51	11.29	11.47	9.23	9.65	1
2	11.36	10.56	13.25	15.92	14.74	12.50	11.71	10.79	11.07	10.99	9.40	9.67	2
3	11.39	10.58	13.45	16.07	15.10	12.28	11.60	11.07	10.91	10.74	9.39	9.61	3
4	11.45	10.63	13.44	16.10	14.98	12.20	11.52	11.17	10.84	10.67	9.23	9.62	4
5	11.47	10.75	13.51	16.04	14.72	12.24	11.26	11.22	10.68	10.74	9.20	9.69	5
6	11.52	10.89	14.67	15.78	14.68	12.17	11.25	11.27	10.58	10.46	9.19	9.67	6
7	11.40	11.05	15.33	15.10	14.71	12.21	11.41	11.22	10.65	10.15	9.31	9.70	7
8	11.33	11.15	15.37	14.78	14.71	12.38	11.48	11.36	10.49	10.09	9.34	9.62	8
9	11.28	11.14	14.78	14.71	14.62	12.33	11.42	11.93	10.76	10.00	9.35	9.64	9
10	11.34	11.07	13.73	14.66	14.63	11.93	11.42	12.27	11.46	9.93	9.24	9.51	10
11	11.38	11.06	12.98	14.56	14.64	11.93	11.56	12.03	12.09	9.98	9.16	9.53	11
12	11.35	11.18	13.42	14.39	14.74E	11.98	11.49	11.76	12.06	10.04	9.17	9.84	12
13	11.34	11.19	13.80	14.35	14.69E	12.38	11.12	11.39	11.92	9.93	9.11	9.90	13
14	11.40	11.24	14.12	15.07	14.26E	12.64	11.46	11.22	11.88	9.73	9.24	9.71	14
15	11.49	11.26	14.34	15.66	13.94E	13.00	11.70	10.91	12.45	9.65	9.55	9.52	15
16	11.77	11.22	14.56	15.90	14.09E	13.14	11.56	10.83	12.83	9.58	9.66	9.43	16
17	11.84	11.25	14.69	15.53	14.63E	13.05	11.81	11.18	12.61	9.56	9.54	9.43	17
18	11.52	11.22	15.13	15.15	14.68	12.83	12.10	11.79	12.38	9.72	9.40	9.54	18
19	11.27	11.16	15.53	15.08	14.68	12.58	12.26	11.89	12.57	9.89	9.39	9.62	19
20	11.13	11.14	15.82	15.14	14.62	12.42	12.18	11.80	12.79	9.67	9.43	9.73	20
21	11.00	11.14	16.15	15.16	14.60	12.06	12.09	11.18	12.70	9.46	9.31	9.69	21
22	10.88	11.29	16.35	15.22	14.56	12.04	11.61	10.98	12.24	9.30	9.51	9.73	22
23	10.84	11.49	16.62	15.23	14.47	11.96	11.03	10.73	12.14	9.28	9.76	9.85	23
24	10.84	11.56	16.60	15.46	13.91E	11.95	10.96	10.72	11.93	9.25	9.78	10.08	24
25	10.85	11.65	16.49	15.56	13.74E	12.01	11.04	10.50	11.72	9.36	9.59	10.15	25
26	10.78	11.78	16.50	15.37	13.34E	12.85	10.99	10.35	11.98	9.61	9.39	10.23	26
27	10.75	11.83	16.49	15.03	12.74E	13.23	10.84	10.24	11.81	9.54	9.54	10.38	27
28	10.69	11.90	16.40	14.78	12.32E	13.10	10.78	10.36	12.57	9.53	9.50	10.50	28
29	10.68	12.91	16.31	14.55		12.95	10.56	10.83	13.82	9.46	9.75	10.45	29
30	10.66	14.01	16.24	14.42		12.72	10.47	11.12	11.97	9.40	9.85	10.48	30
31	10.57		16.00	14.56		12.41		11.50		9.33	9.79		31

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
12-23-70	1530	16.69									
1-16-71	0800	15.97									
6-29-71	1100	14.12									

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.D.B.&M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	PERIOD TO	ZERO ON GAGE	REF. DATUM
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-10

CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published in Bulletin No. 130-66, Volume IV.

For other corrections and revisions to previously published reports dating back to 1924, refer to page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-1

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
		Bulletin No. 23-58 Surface Water Flow for 1958			
132		Table 149 San Joaquin River at Whitehouse	July acre-feet Water Year Total	247300 1292000	24730 1069000
		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley			
B-19		Table B-9 Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
			Maximum Discharge of record	1140E	804
B-29		Table B-19 Bear Creek near Cathay	Maximum Discharge 1963 Water Year flow gage ht.	3850E 9.98	4170E 10.07
			Maximum Discharge of record flow gage ht.	3850E 9.98	4170E 10.07
B-98	ŏ(12.00-13.75)	Table B-87 Tranquillity Irrigation District	Diversions Oct.	204	204
			Nov.		
			Dec.		
			Jan.		52
			Feb.	1777	2005
			March	4066	4112
			April		383
			May		2291
			June		7200
			July	557	7454
			Aug.	6306	6659
			Sept.	1414	1414
			Total	14324	31774
		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley			
68		Table B-4 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record flow gage ht.	3850E 9.98	4170E 10.07
		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley			
61		Table B-5 Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5 Bear Creek near Catheys Valley	Maximum Discharge of record flow gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5 Orestimba Creek near Crows Landing	Daily Mean Discharge		
			Jan. 8	0.0	B NR
			9	0.0	A NR
			10	0.0	C NR
			11	0.0	K NR
			12	0.0	W NR
			13	0.0	A NR
			14	0.0	T NR
			15	0.0	E NR
			16	0.0	R NR
			17	0.0	NR
115	112.55R	Table B-7 Diversions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7 United Packing Company	Diversions Total	omitted in 1965	700
		Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley			
76		Table B-4 Bear Creek near Catheys Valley	Maximum Discharge of record flow gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
78		Table B-4 Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

TABLE 8-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
86		Table B-4 Merced River at Cressey	Minimum discharge 1966 Water Year Month	7	8
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January	18033	1833
			Average cubic feet per second	293	29.8
			Monthly use in percent of seasonal	3.5	0.4
			Total Diversion	516577	500377
			Average cubic feet per second	714	691
133		Table B-9 Exports from Tuolumne River	Total acre-feet Oct.	15655	15696
			Nov.	12685	12721
			Dec.	14987	15023
			Jan.	7812	7851
			Feb.	11913	11946
			March	15566	12607
			April	11060	11106
			May	15208	15260
			June	18388	18438
			July	21398	21462
			Aug.	21312	21379
			Sept.	19498	19552
			Total	185482	183041
		Bulletin No. 130-67 Hydrologic Data 1967 Volume IV, San Joaquin Valley			
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions Sept.	40	17
			Total	278	255
		Bulletin No. 130-68 Hydrologic Data 1968 Volume IV, San Joaquin Valley			
104		Table B-5 Laguna Water District	Diversions May		90
			June		110
			July		110
			Aug.		90
			Total		400
107	1.9 L 2.9 L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steenstrup Estate	John & Robert Bogetti
		Bulletin No. 130-69 Hydrologic Data 1969 Volume IV, San Joaquin Valley			
54		Table B-4 San Joaquin River near Dos Palos	Maximum Discharge 1969 Water Year Month	3	6
			Day	11	16
			Time	2300	0800
			Gage Ht.	10.42	10.38
			Flow	5560	5900
78		Table B-4 Merced River below Snelling	Daily Mean Discharge Jan. 21	946	980
			Monthly Mean	189	190
			Monthly acre-feet	11620	11680
87		Table B-4 San Joaquin River at Maze Road Bridge	Maximum 1969 Water Year Discharge	42800	45550
			Gage Ht.	36.46	36.87
			Time	0400	0300
			Maximum Discharge of record CFS	42800	45550
			Gage Ht.	36.46	36.87
			Last line Feet	37.00	38.31
			Hours	2400	2000
			Date	2-28-69	1-27-69
95		Table B-4 Tule River below Porterville	Maximum Discharge 1969 Water Year Discharge		3066
			Gage Ht.		5.35
			Month		2
			Day		26
			Time		1200
130		Table B-12 San Joaquin River at Fremont Ford Bridge	Maximum Discharge of Record CFS	8260b	9180b
			Gage Ht.	68.02	68.05
			Date	2-27-69	2-26-69
			Footnote a	Delete Entire Note	

TABLE B-10 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR			ITEM	CHANGE	
PAGE	MILE & BANK	NAME		FROM	TO
133		Table B-12 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum Discharge of Record Gage Ht.	37.00a	38.31a
			Date	2-28-69	1-27-69
		Bulletin No. 130-70 Hydrologic Data 1970 Volume IV, San Joaquin Valley			
95		Table B-4 Woods-Central Ditch near Porterville	Daily Mean Discharge June 5	132.0	27.5
			Monthly Acre-feet	7604	7397
			Water Year Total	43386	43179
108		Table B-6 Woods-Central Ditch	Diversions June	7604	7397
			Total	43386	43179
117		Table B-11 San Joaquin River at Fremont Ford Bridge	Maximum Discharge of Record CFS	8260b	9180b
			Gage Ht.	68.02	68.05
			Date	2-27-69	2-26-69
			Footnote a	Delete Entire Note	
120		Table B-11 San Joaquin River near Newman	Maximum Discharge of Record CFS	33300a	34700a

APPENDIX C

GROUND WATER MEASUREMENT

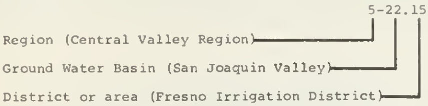
INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

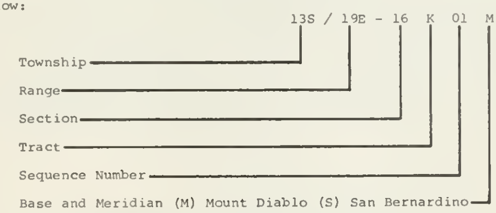
This appendix presents ground water measurement data on these wells for the period October 1, 1970, through September 30, 1971. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:


5-22.15
Region (Central Valley Region)
Ground Water Basin (San Joaquin Valley)
District or area (Fresno Irrigation District)

The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:

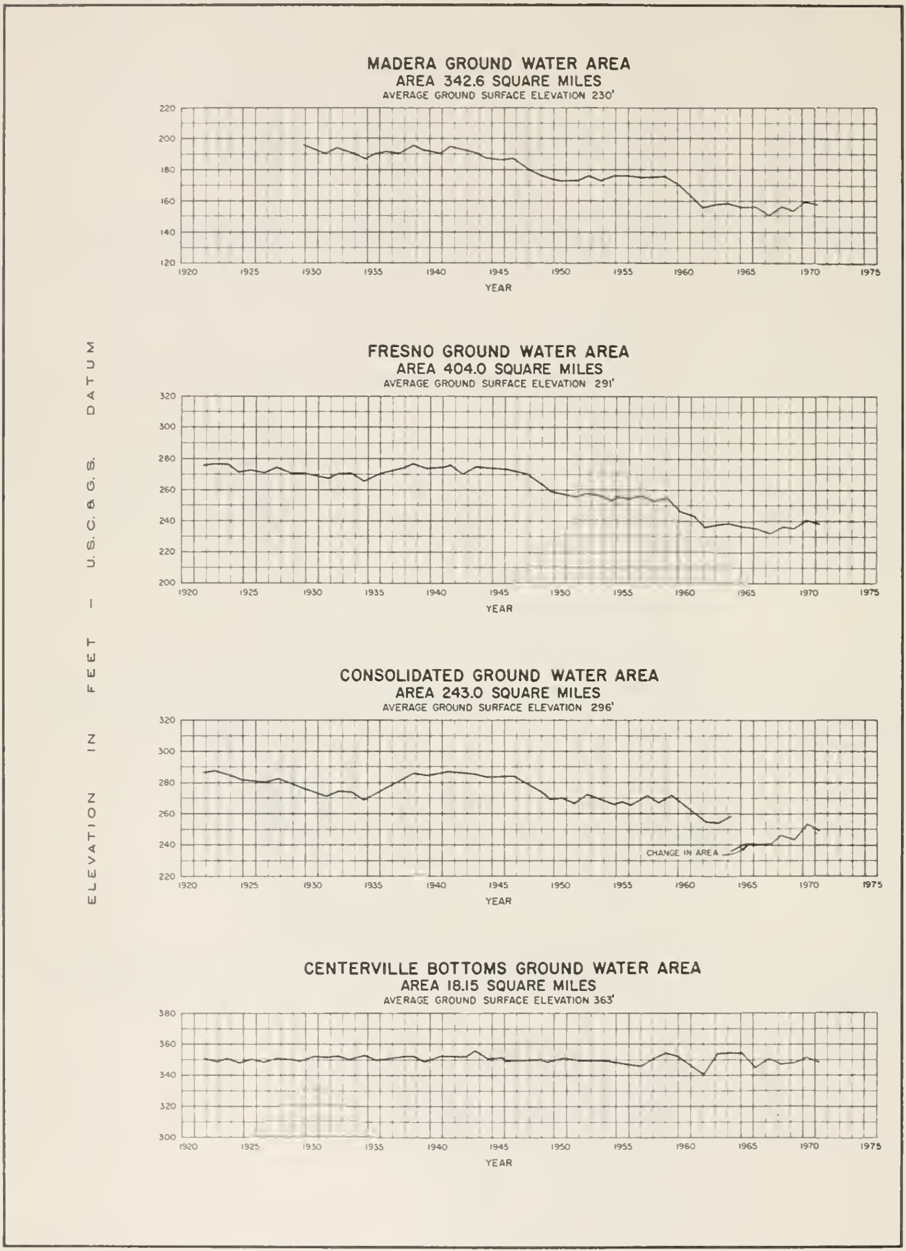


This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

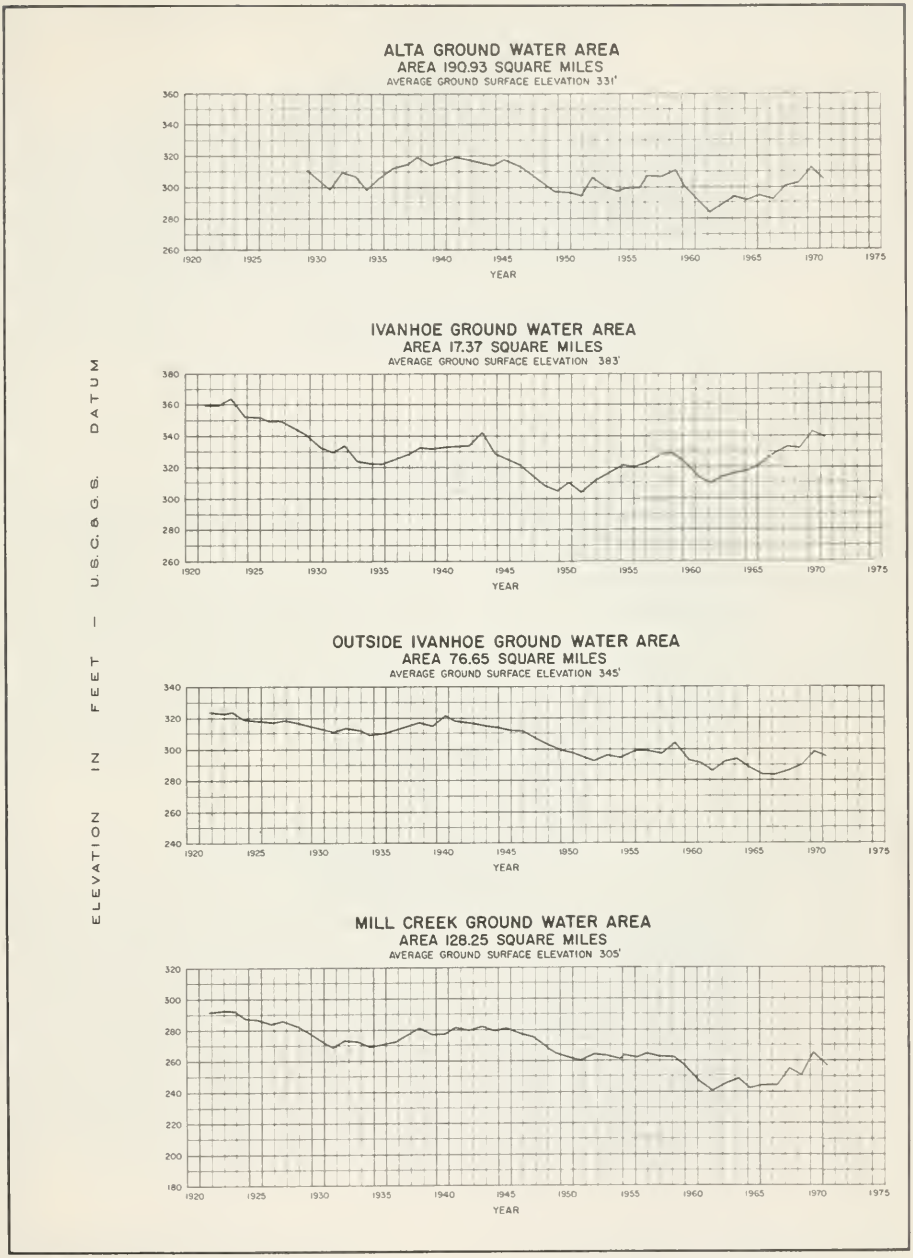
Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



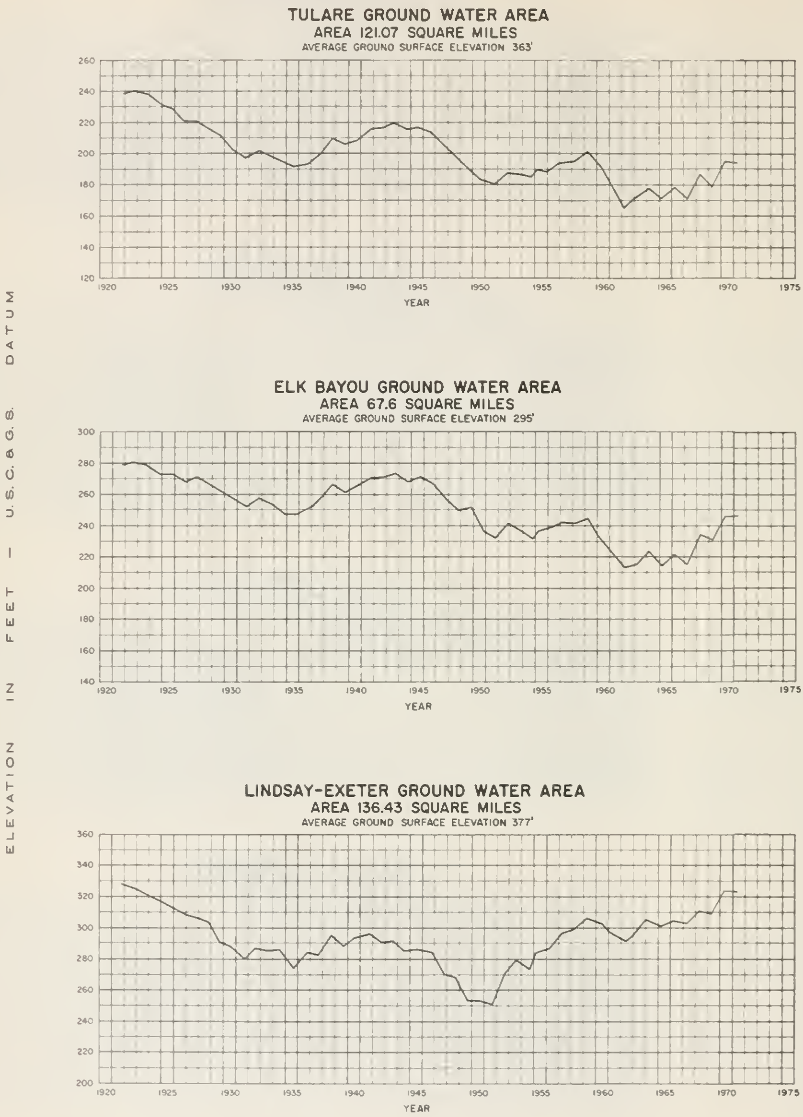
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



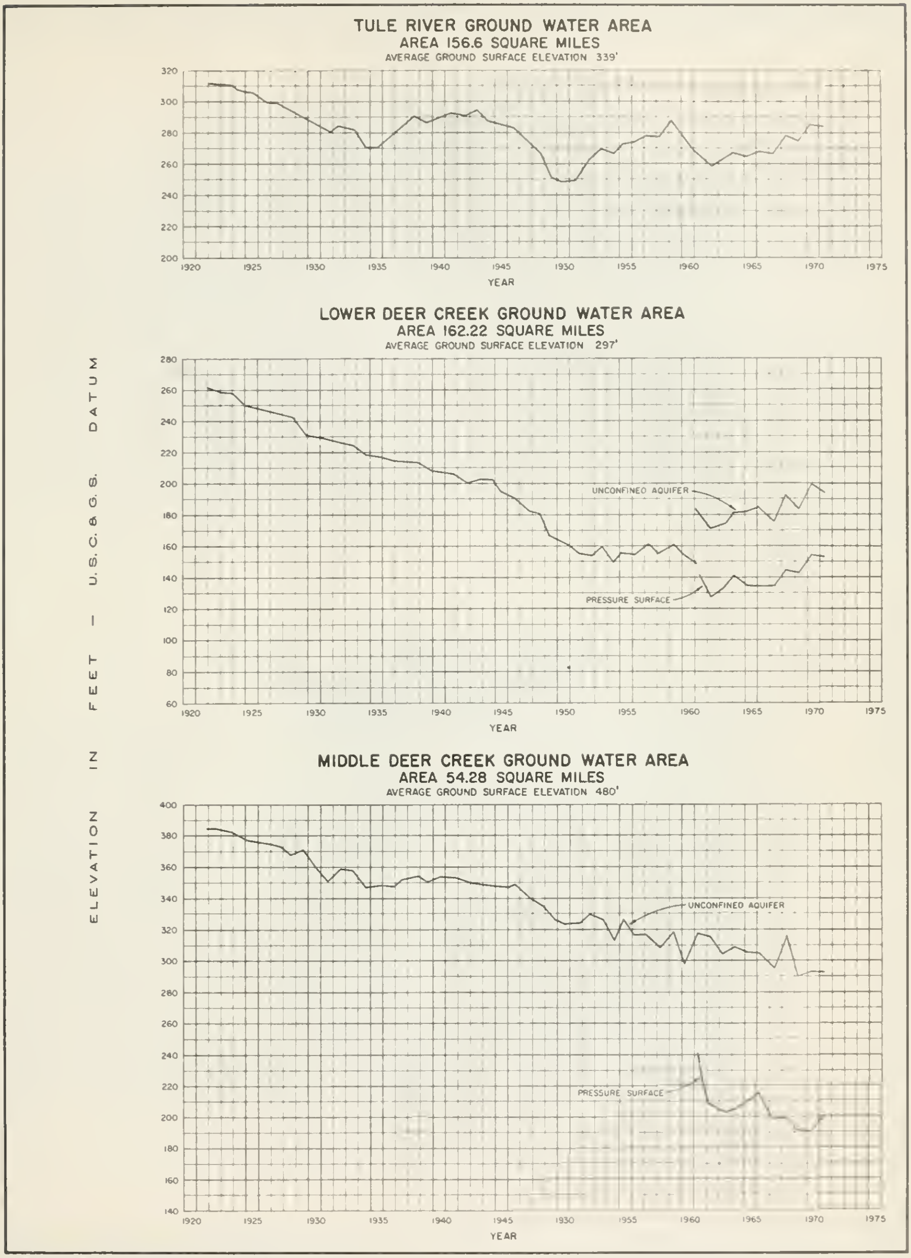
TULARE GROUND WATER AREA
AREA 121.07 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'

ELK BAYOU GROUND WATER AREA
AREA 67.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 295'

LINDSAY-EXETER GROUND WATER AREA
AREA 136.43 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 377'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS



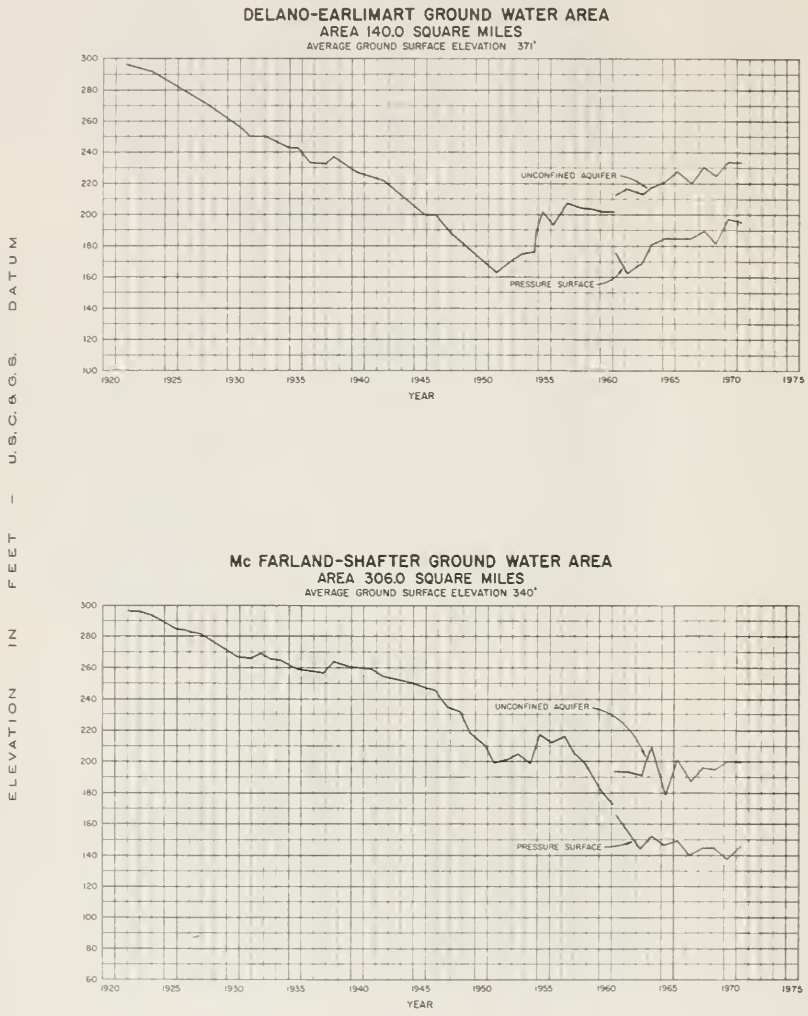
TULE RIVER GROUND WATER AREA
AREA 156.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 339'

LOWER DEER CREEK GROUND WATER AREA
AREA 162.22 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 297'

MIDDLE DEER CREEK GROUND WATER AREA
AREA 54.28 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 480'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

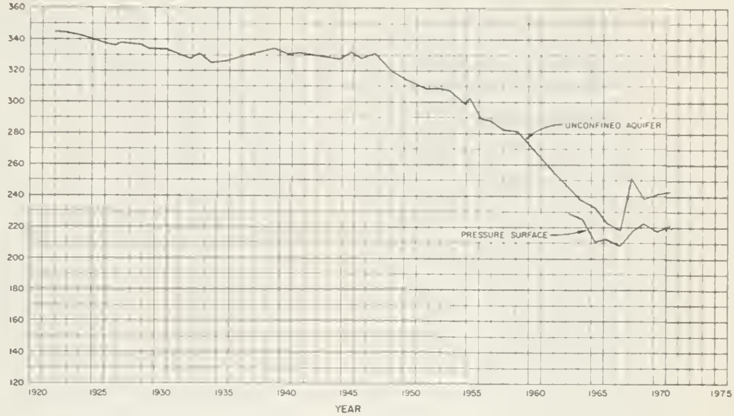


DELANO-EARLIMART GROUND WATER AREA
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 371'

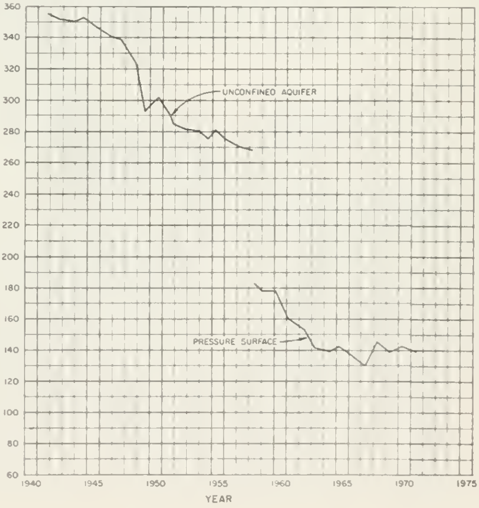
Mc FARLAND-SHAFTER GROUND WATER AREA
AREA 306.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 340'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

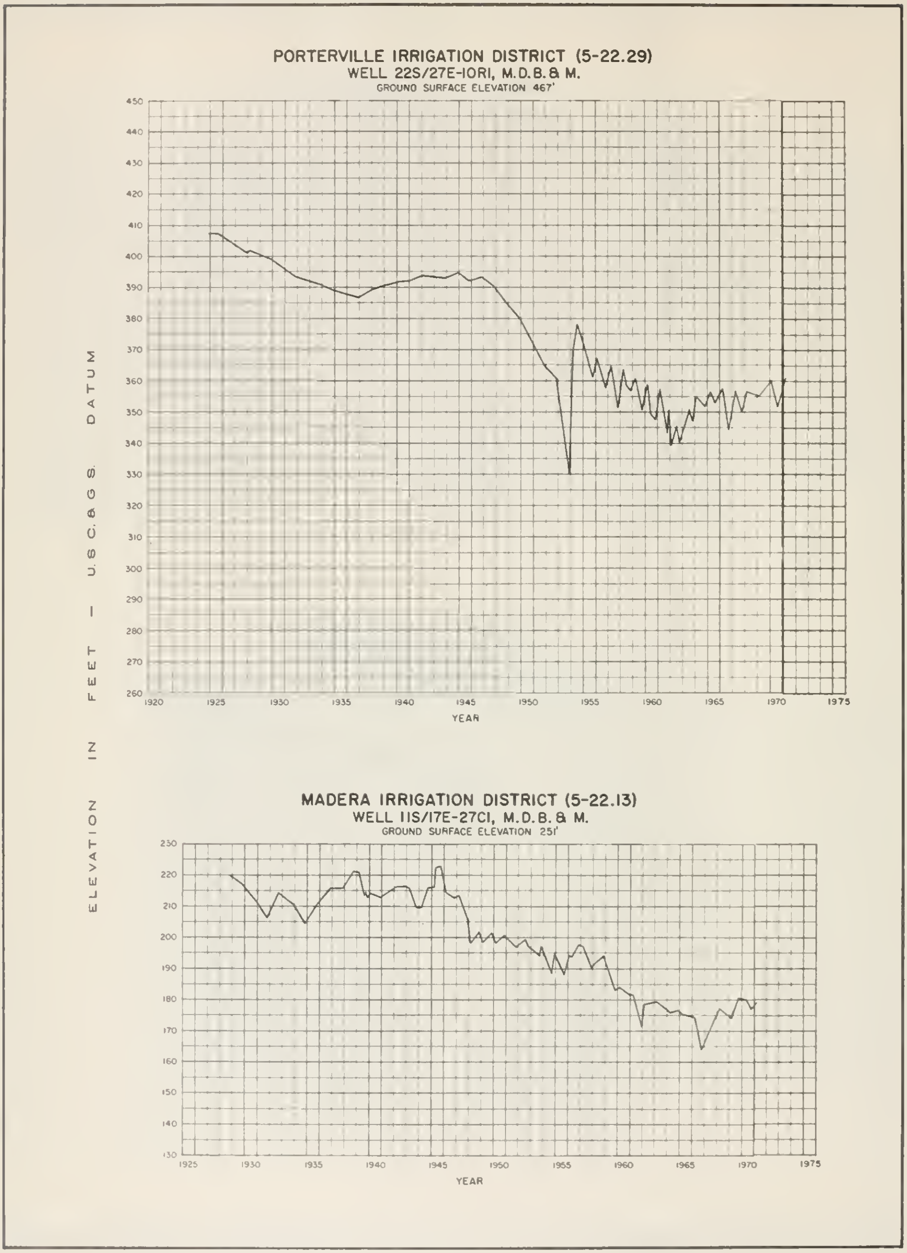


ROSEDALE GROUND WATER AREA
AREA 78.88 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'



ARVIN-EDISON GROUND WATER AREA
AREA 205.18 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 543'

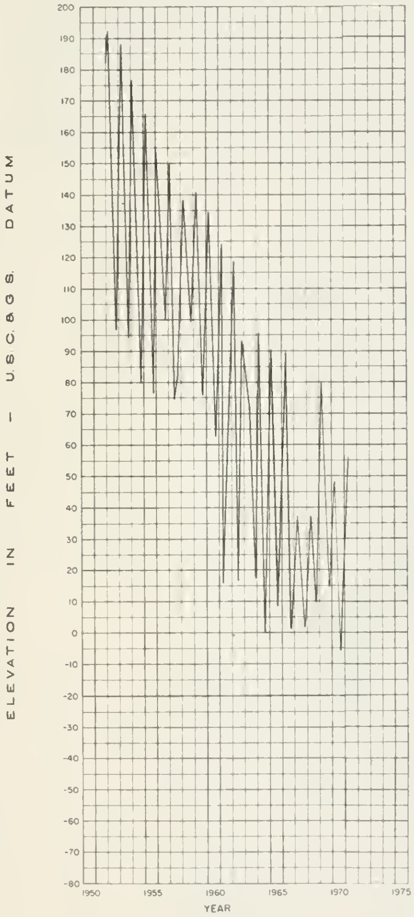
Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



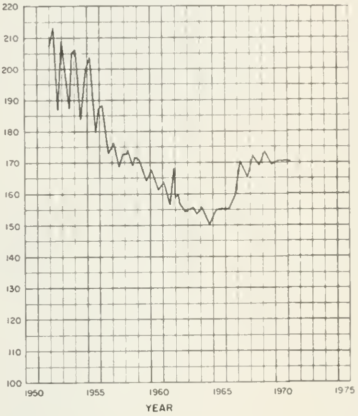
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

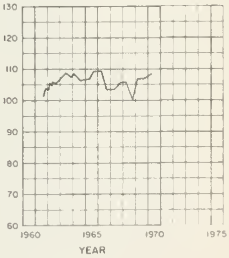
SEMITROPIC WATER STORAGE DISTRICT-DEEP ZONE (5-22.43)
WELL 27S/23E-1R4, M.D.B.& M.
GROUND SURFACE ELEVATION 267'



SEMITROPIC WATER STORAGE DISTRICT-SHALLOW ZONE (5-22.43)
WELL 27S/23E-1R1, M.D.B.& M.
GROUND SURFACE ELEVATION 267'

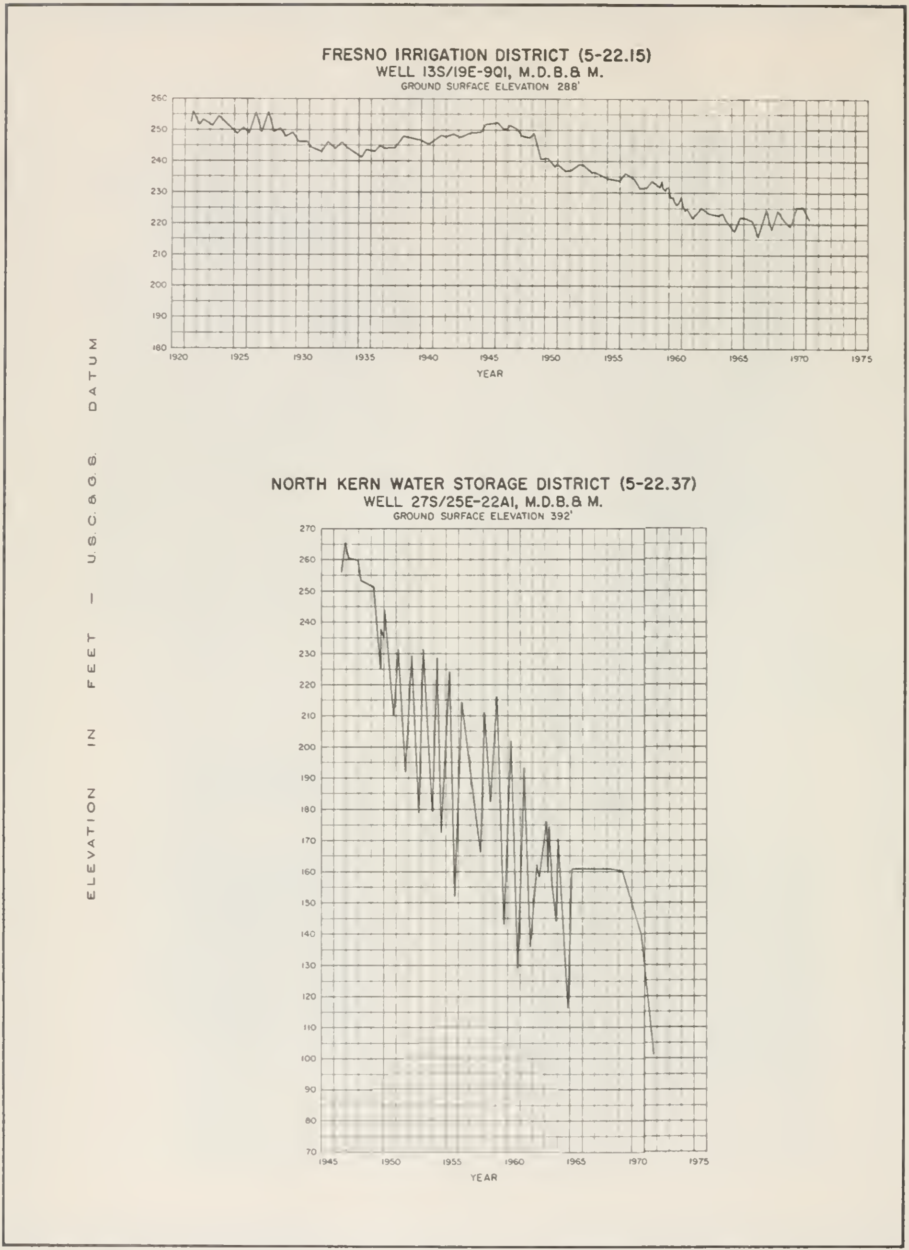


MERCED IRRIGATION DISTRICT (5-22.09)
WELL 7S/11E-1H1, M.D.B.& M.
GROUND SURFACE ELEVATION 118'



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

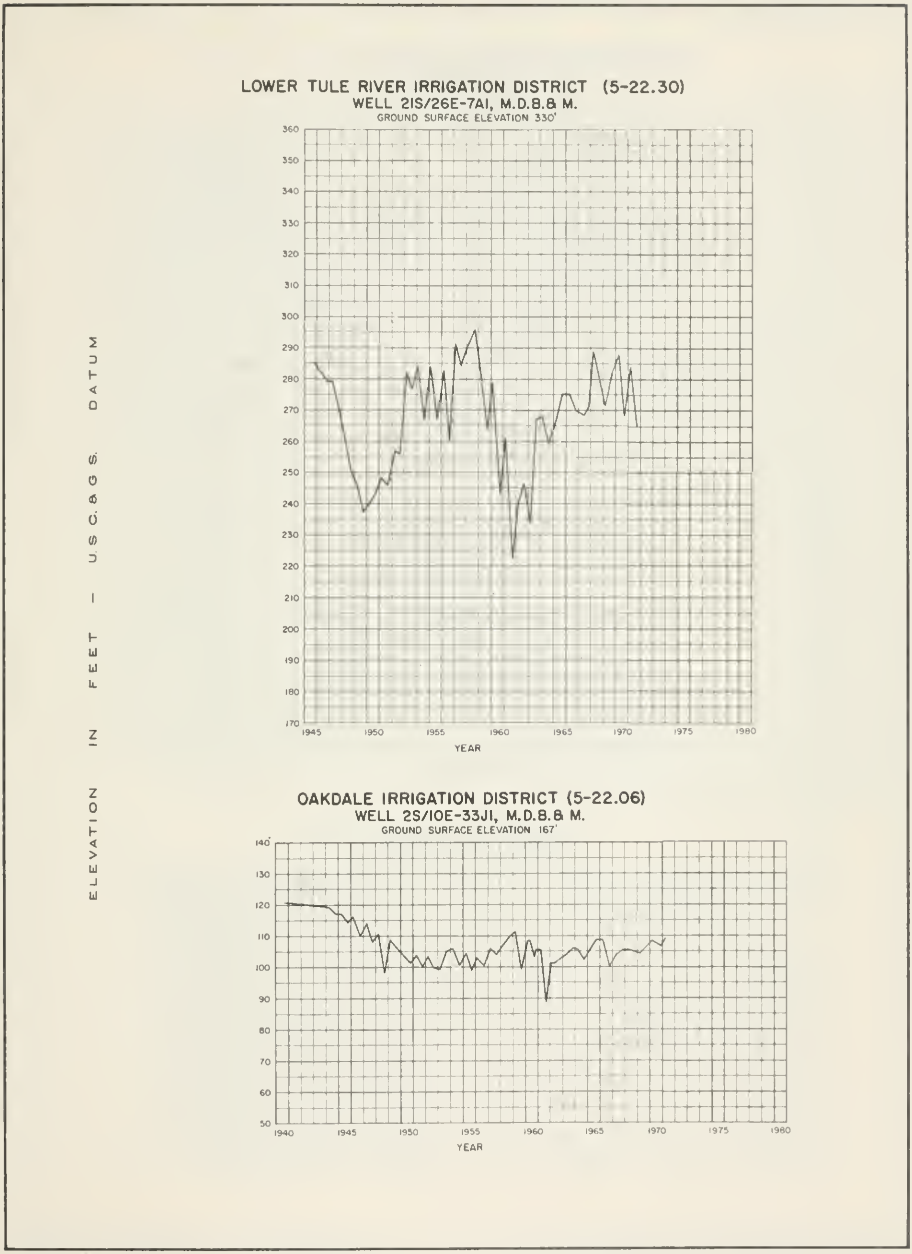


FRESNO IRRIGATION DISTRICT (5-22.15)
WELL 13S/19E-9Q1, M.D.B.& M.
GROUND SURFACE ELEVATION 288'

NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 27S/25E-22A1, M.D.B.& M.
GROUND SURFACE ELEVATION 392'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

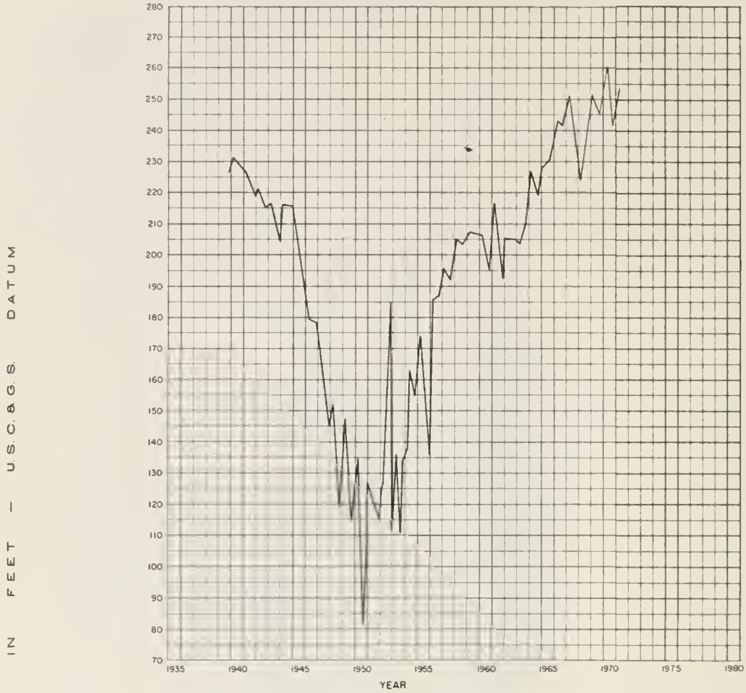


LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 21S/26E-7A1, M.D.B.& M.
GROUND SURFACE ELEVATION 330'

OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33J1, M.D.B.& M.
GROUND SURFACE ELEVATION 167'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS


SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-28H2, M.D.B.& M.
GROUND SURFACE ELEVATION 414'

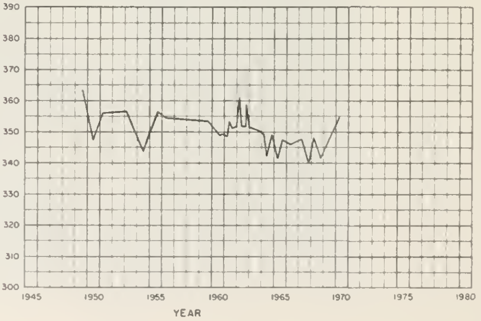
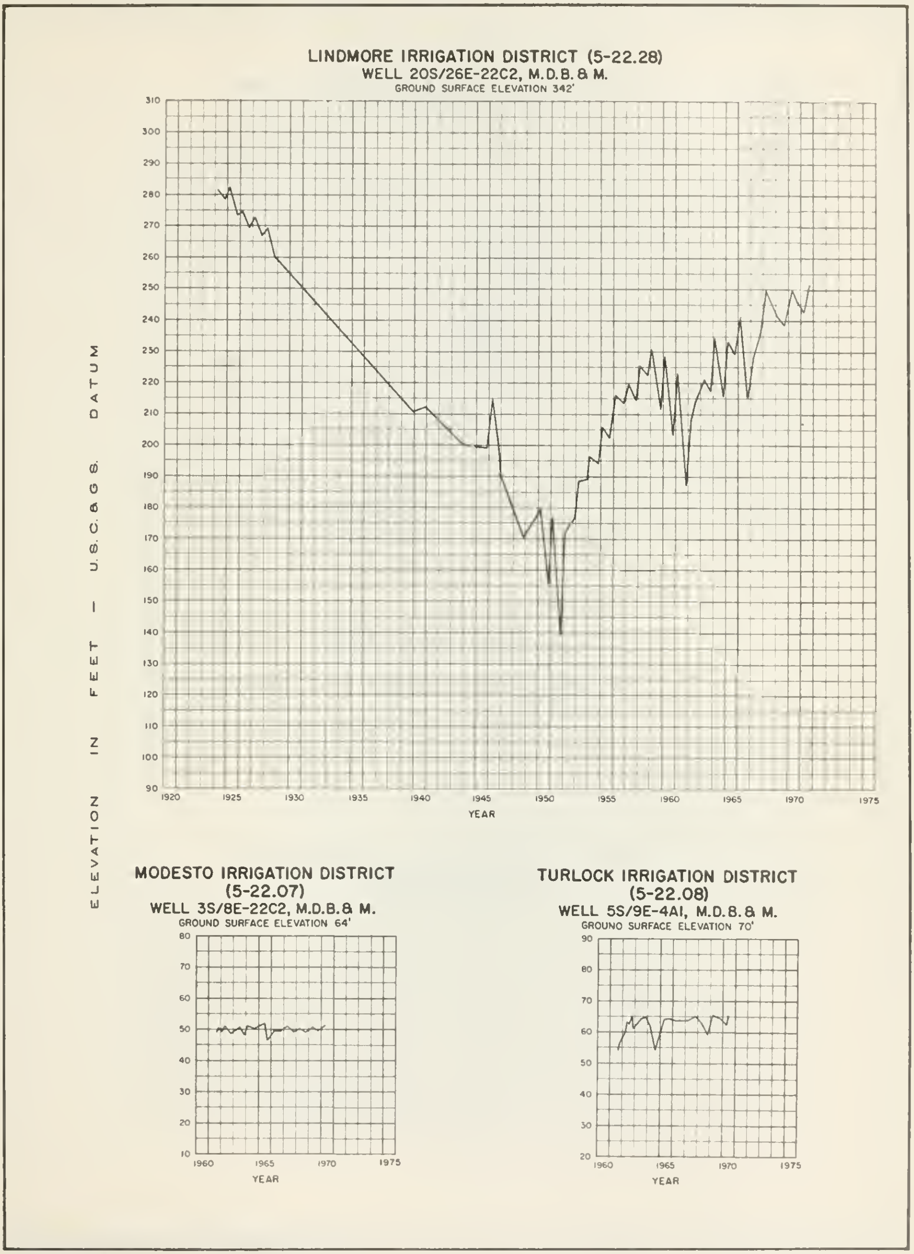

AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B.& M.
GROUND SURFACE ELEVATION 480'

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



LINDMORE IRRIGATION DISTRICT (5-22.28)
WELL 20S/26E-22C2, M.D.B.& M.
GROUND SURFACE ELEVATION 342'

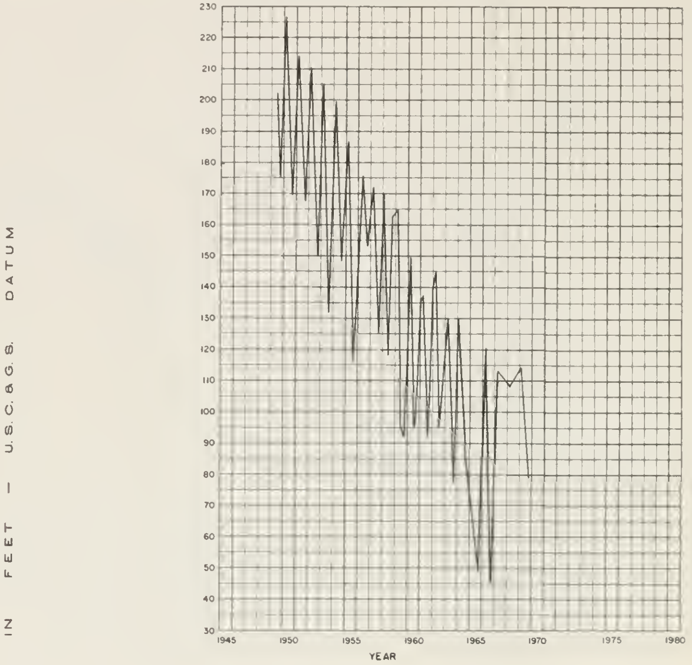
MODESTO IRRIGATION DISTRICT
(5-22.07)
WELL 3S/8E-22C2, M.D.B.& M.
GROUND SURFACE ELEVATION 64'

TURLOCK IRRIGATION DISTRICT
(5-22.08)
WELL 5S/9E-4A1, M.D.B.& M.
GROUND SURFACE ELEVATION 70'

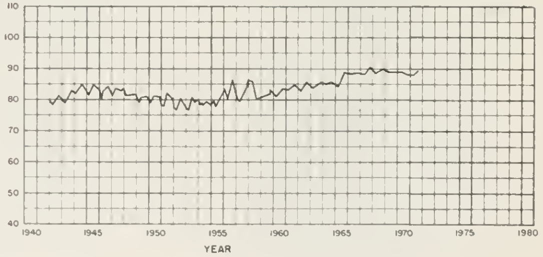
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B.& M.
GROUND SURFACE ELEVATION 316'



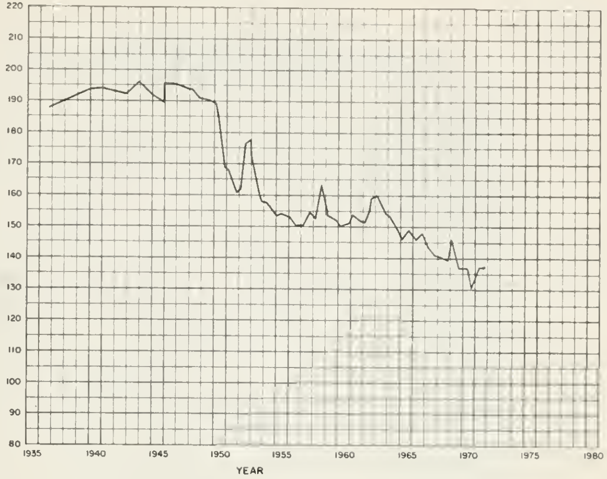
DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-18N1, M.D.B.& M.
GROUND SURFACE ELEVATION 99'



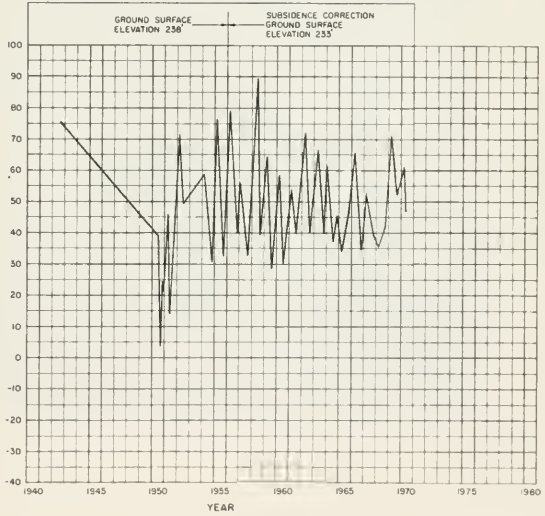
DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ALPAUGH-ALLENSWORTH AREA (5-22.34)
WELL 24S/23E-21B2, M.D.B.& M.
GROUND SURFACE ELEVATION 206'

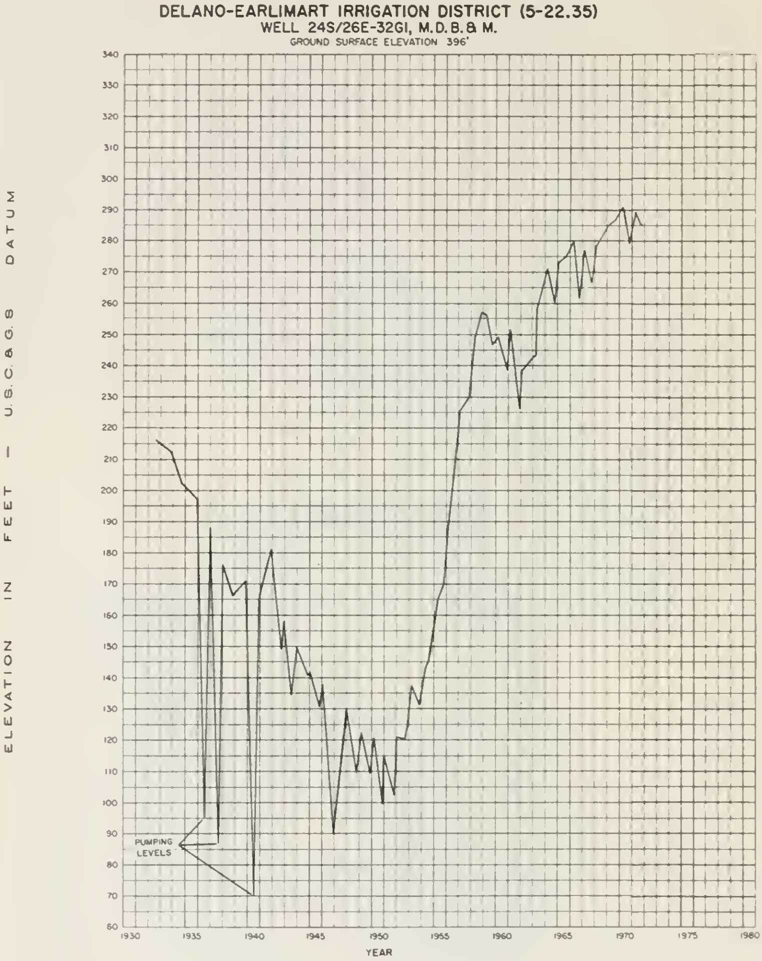


MENDOTA-HURON AREA (5-22.47)
WELL 17S/16E-24R1, M.D.B.& M.



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



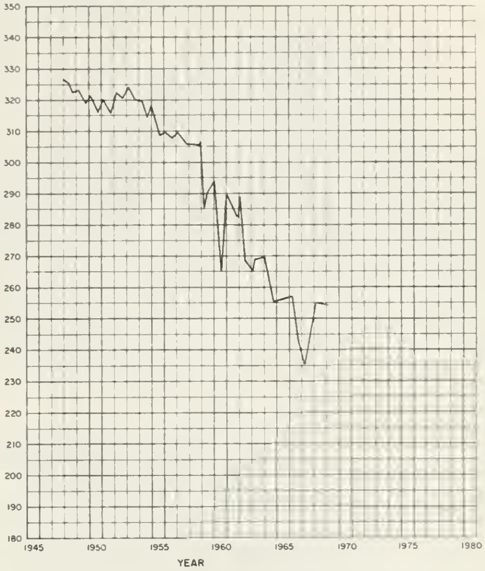
DELANO-EARLIMART IRRIGATION DISTRICT (5-22.35)
WELL 24S/26E-32G1, M.D.B.& M.
GROUND SURFACE ELEVATION 396'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

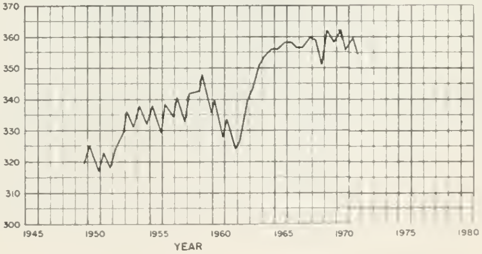
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET — U.S.C.&G.S. DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-27A1, M.D.B.& M.
GROUND SURFACE ELEVATION 339'

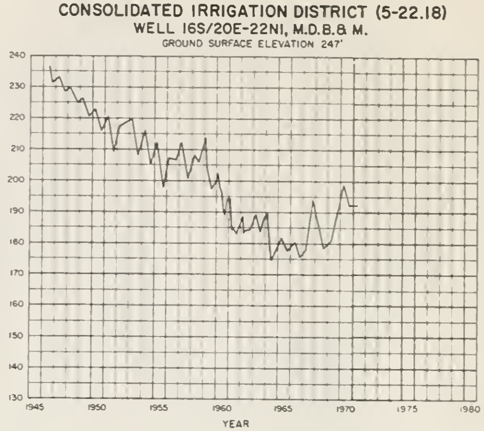


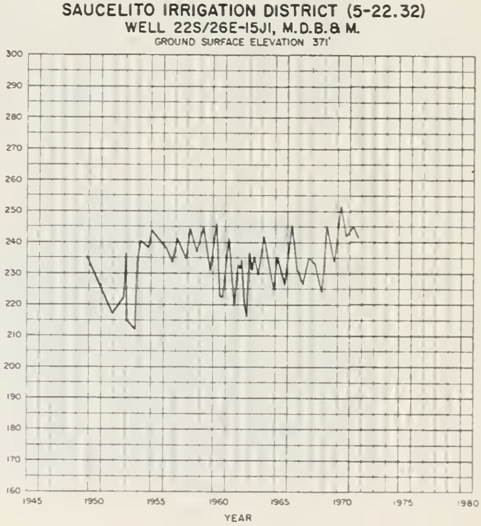
STONE CORRAL
IRRIGATION DISTRICT (5-22.22)
WELL 17S/26E-7R1, M.D.B.& M.
GROUND SURFACE ELEVATION 364'



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

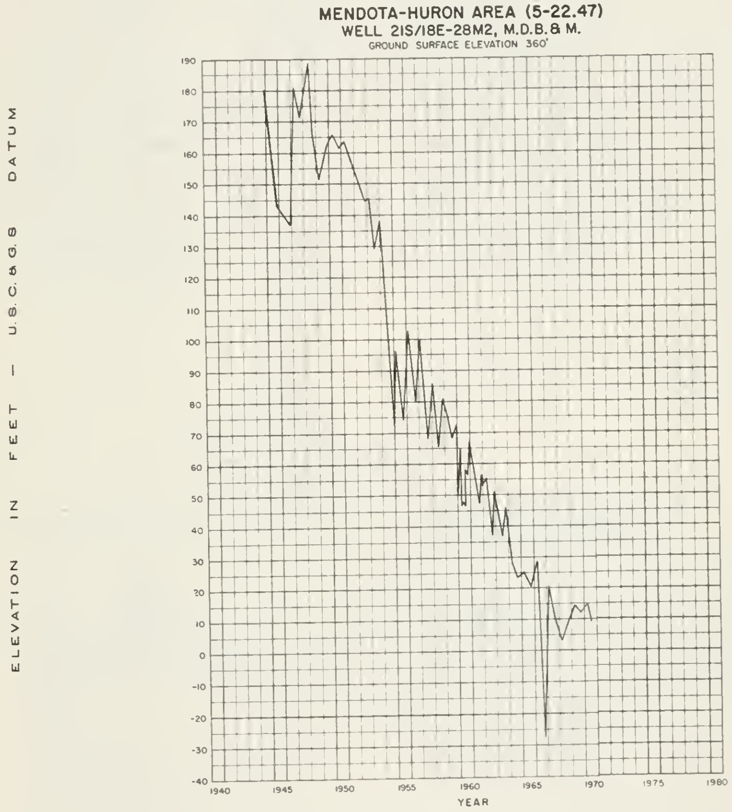
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS


CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B.& M.
GROUND SURFACE ELEVATION 247'


SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B.& M.
GROUND SURFACE ELEVATION 371'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

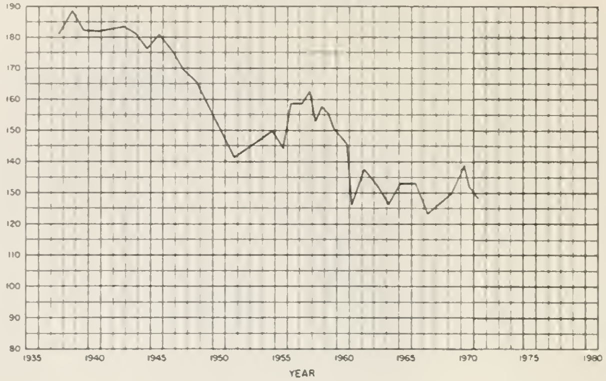
Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

FRESNO SLOUGH AREA (5-22.17)
WELL 17S/18E-23A2, M.D.B.&M.
GROUND SURFACE ELEVATION 200'



EXETER IRRIGATION DISTRICT (5-22.26)
WELL 18S/27E-29D1, M.D.B.&M.
GROUND SURFACE ELEVATION 446'

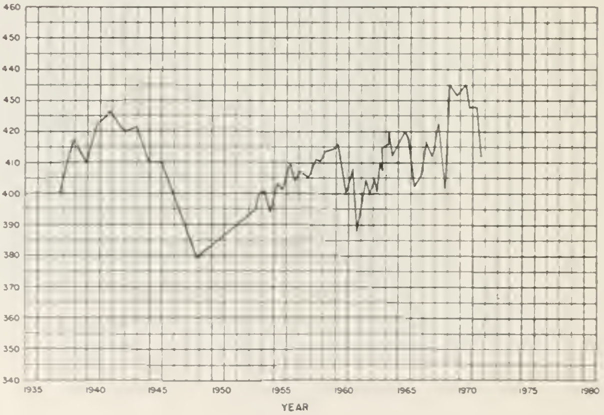
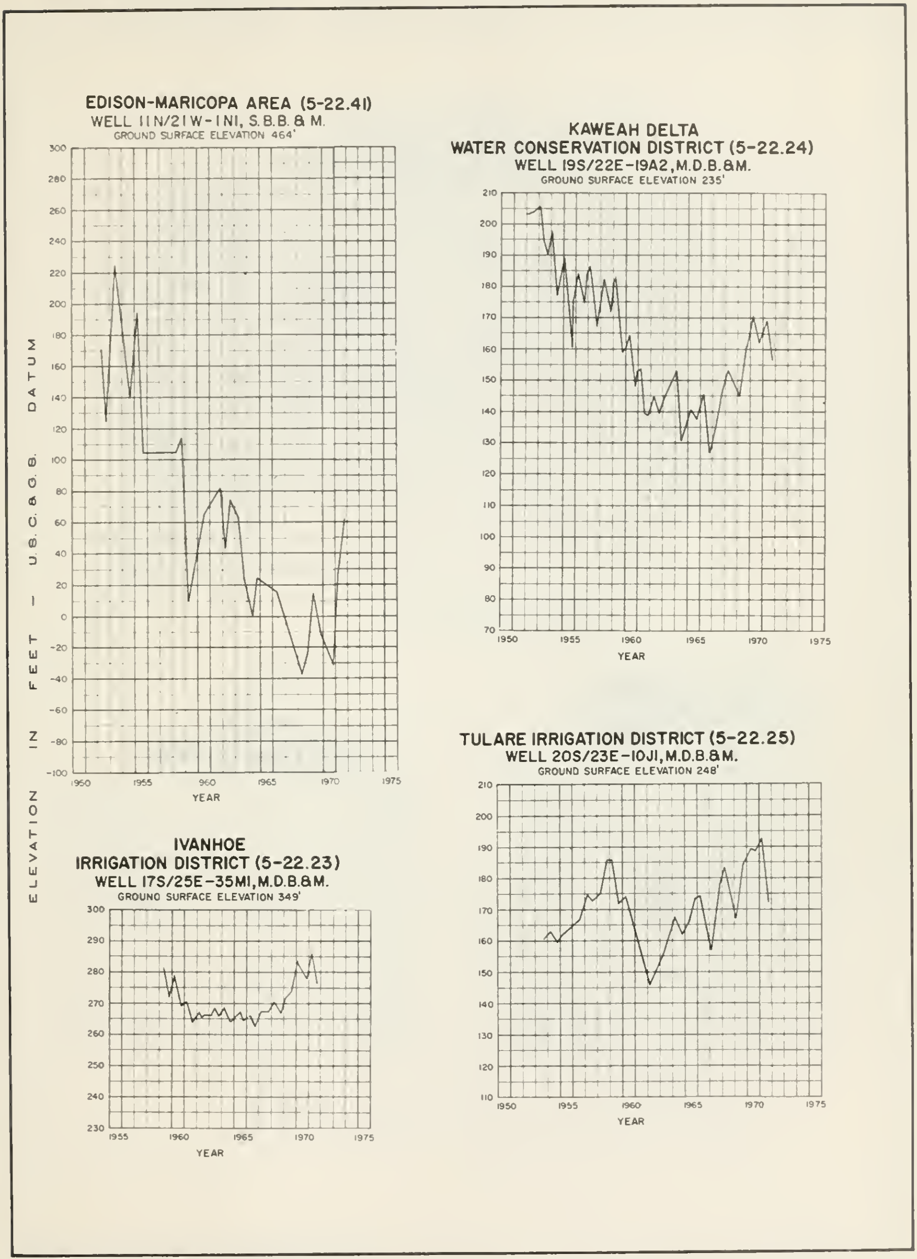
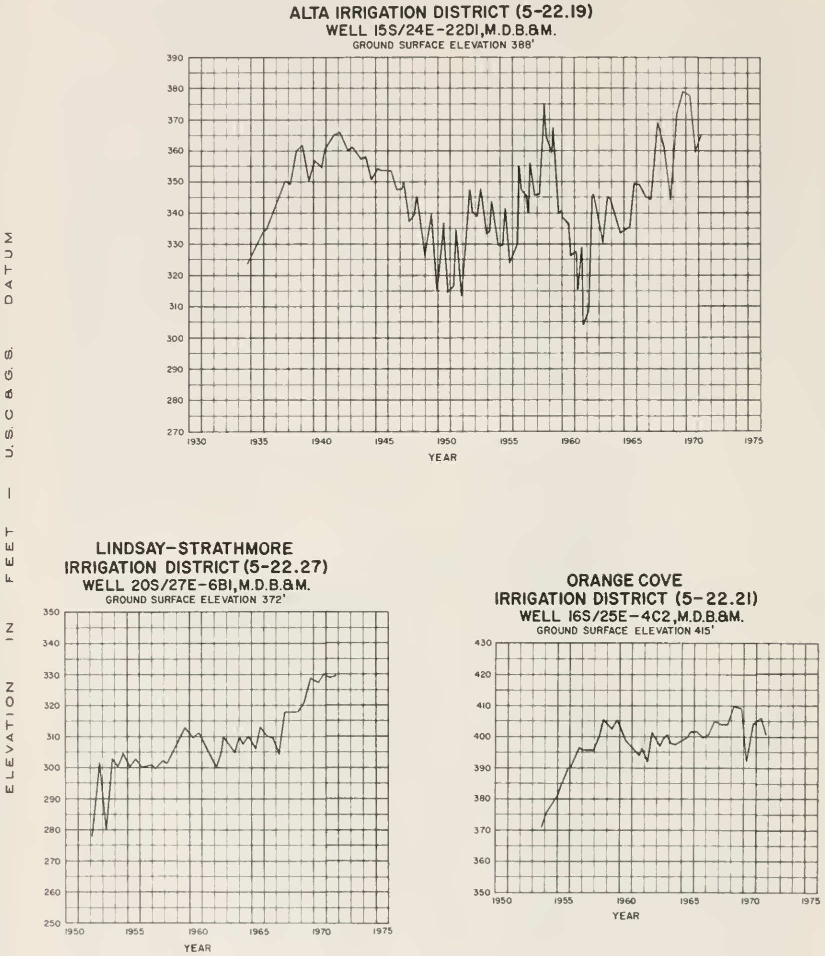


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



ALTA IRRIGATION DISTRICT (5-22.19)
WELL 15S/24E-22D1,M.D.B.&M.
GROUND SURFACE ELEVATION 388'

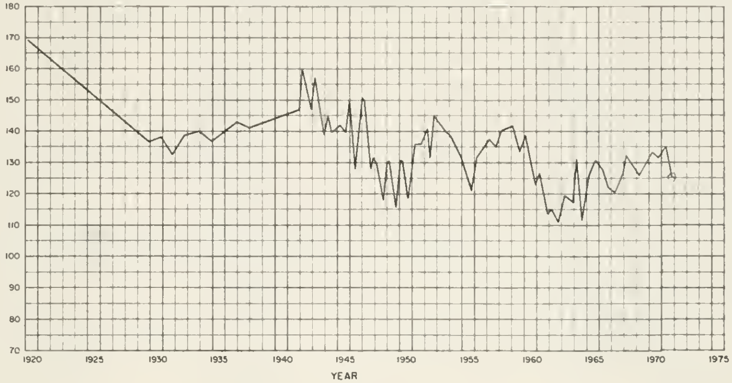
LINDSAY-STRATHMORE IRRIGATION DISTRICT (5-22.27)
WELL 20S/27E-6B1,M.D.B.&M.
GROUND SURFACE ELEVATION 372'

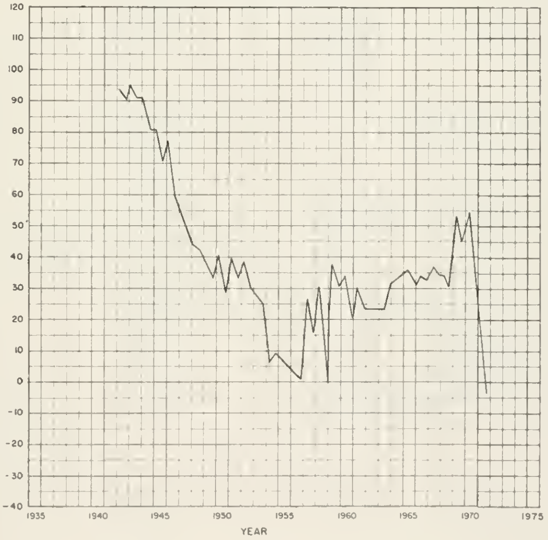
ORANGE COVE IRRIGATION DISTRICT (5-22.21)
WELL 16S/25E-4C2,M.D.B.&M.
GROUND SURFACE ELEVATION 415'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET — U.S.C.&G.S. DATUM


CHOWCHILLA WATER DISTRICT (5-22.12)
WELL 10S/15E-23K1, M.D.B.& M.
GROUND SURFACE ELEVATION 194'


DELTA-MENDOTA AREA-DEEP ZONE (5-22.11)
WELL 10S/10E-31G1, M.D.B.& M.
GROUND SURFACE ELEVATION 191'

DEPARTMENT OF WATER RESOURCES SAN JOAQUIN DISTRICT 1971

TABLE C-1

CHANGE IN AVERAGE GROUND WATER LEVEL IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY

Spring 1970 - Spring 1971

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		+ 0.1
Modesto Irrigation District	5-22.07		- 0.1
Turlock Irrigation District	5-22.08		+ 0.2
Merced Irrigation District	5-22.09		- 2.6
El Nido Irrigation District	5-22.10		- 3.6
Delta-Mendota Area	5-22.11	305	- 0.1
Chowchilla Water District	5-22.12		- 1.9
Madera Irrigation District	5-22.13		- 4.4
West Chowchilla-Madera Area	5-22.14		- 2.4
Fresno Irrigation District	5-22.15		- 2.6
City of Fresno	5-22.16	57	- 2.5
Fresno Slough Area	5-22.17		- 4.0
Consolidated Irrigation District	5-22.18		- 2.7
Alta Irrigation District	5-22.19		- 6.0
Lower Kings River Area	5-22.20		
Shallow Zone			- 3.9
Deep Zone			+ 3.5
Orange Cove Irrigation District	5-22.21	67	+ 3.2
Stone Corral Irrigation District	5-22.22	11	- 1.6
Ivanhoe Irrigation District	5-22.23		- 0.8
Kaweah-Delta Water Conservation District	5-22.24		- 3.9
Tulare Irrigation District	5-22.25		- 3.0
Exeter Irrigation District	5-22.26		+ 1.5
Lindsay-Strathmore Irrigation District	5-22.27		+ 1.6
Lindmore Irrigation District	5-22.28		+ 1.3
Porterville Irrigation District	5-22.29		- 7.8
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			- 0.1
Deep Zone			- 2.8
Vandalia Irrigation District	5-22.31	5	-13.2
Saucelito Irrigation District	5-22.32		
Shallow Zone			- 6.1
Deep Zone			- 3.6
Pixley Irrigation District	5-22.33		
Shallow Zone			- 2.7
Deep Zone			+ 3.6

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1970 - Spring 1971

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			+ 3.8
Deep Zone			+12.3
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			- 0.4
Deep Zone			- 8.5
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			- 2.6
Deep Zone			- 4.9
North Kern Water Storage District	5-22.37		
Shallow Zone			- 7.5
Deep Zone			+ 6.4
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			+ 8.0
Deep Zone			+ 5.3
City of Bakersfield	5-22.39	21	- 5.0
Kern River Delta Area	5-22.40		
Shallow Zone			+ 0.2
Deep Zone			- 8.1
Edison-Maricopa Area	5-22.41		
Deep Zone			-11.5
Buena Vista Water Storage District	5-22.42		- 4.7
Semitropic Water Storage District	5-22.43		
Shallow Zone			+ 2.3
Deep Zone			+ 6.2
Avenal-McKittrick Area	5-22.44	No measurements made spring 1971.	
Tulare Lake-Lost Hills Area	5-22.45	Insufficient data to compute change.	
Corcoran Irrigation District	5-22.46		
Shallow Zone			+ 9.9
Deep Zone			+13.1
Mendota-Huron Area	5-22.47		
Deep Zone			-11.5[b]
Poso Soil Conservation District	5-22.48		- 1.5
San Luis Canal Company	5-22.49		+ 1.3
Terra Bella Irrigation District	5-22.50	2	+ 4.1
Merced Bottoms	5-22.54		- 0.1
Centerville Bottoms Area	5-22.64		+ 1.3
Garfield Water District	5-22.65	12	+ 3.4

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1970 - Spring 1971

Ground Water Districts or Areas		Number of Wells Considered in Analysis[a]	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Kings County Water District	5-22.66		
Shallow Zone			- 5.1
Deep Zone			+ 3.2
Pleasant Valley Area	5-22.69	13	-10.1

a/ Average changes were determined by planimetering ground water contour maps. Where numbers appear, changes were computed by numerical averages.

b/ Average change determined from water level measurements made during December 1970 and December 1971.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM 1921 TO 1951 AND 1951 TO 1971 IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area*	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level 1921-51[a] in feet	Net change in water level 1951-71[b] in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1[c]	- 14.1
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 15.1
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 7.8
Centerville Bottoms	18.1	-----	+ 1.0	- 3.0
Alta	190.9	Alta Irrigation District	- 17.2[c]	+ 11.1
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 36.4
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 1.4
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	- 2.7
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 14.1
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 15.0
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay-Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 75.0
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 38.9
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	+ 9.2[e] + 10.2[f]
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 13.9[e] - 40.6[f]
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 22.8[e] + 18.0[f]
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter-Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	+ 7.2[e] - 20.9[f]
Rosedale	78.9	-----	- 36.3	- 53.7 - 8.6[g]
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9[d]	- 20.2[f]

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.
b/ Fall 1951 to spring 1971.
c/ Fall 1929 to fall 1951.
d/ Fall 1941 to fall 1951.
e/ Unconfined aquifer, spring 1961 to spring 1971, only one aquifer reported prior to 1961.
f/ Pressure surface, spring 1961 to spring 1971, only one aquifer reported prior to 1961.
g/ Pressure surface, spring 1963 to spring 1971, only one aquifer reported prior to 1963.

* These areas are shown on Plate 2.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 125.

Aquifer--Qualifications are based on the latest geologic knowledge of the aquifer system and construction of individual wells. The code symbols are as follows:

0 Unqualified due to lack of well construction and/or geology information.

1 Unconfined, perforated above the Corcoran Clay.

2 Confined, perforated below the Corcoran Clay.

3 Composite, perforated above and below the Corcoran Clay.

4 Unconfined, outside Corcoran Clay area.

5 Confined, aquitard other than Corcoran Clay.

6 Composite, perforated above and below aquitard outside Corcoran Clay area.

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT

0 Measurement discontinued

1 Pumping

2 Pump house locked

3 Tape hung up

4 Can't get tape in casing

5 Unable to locate well

6 Well has been destroyed

7 Special

8 Casing leaking or wet

9 Temporarily inaccessible

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

Agency Code	Agency
5000	U. S. Geological Survey
5001	U. S. Bureau of Reclamation
5050	Department of Water Resources
5121	Kern County Water Agency
5129	Kings County Water District
5200	City of Fresno
5520	Oakdale Irrigation District
5521	Modesto Irrigation District
5524	Turlock Irrigation District
5525	Merced Irrigation District
5527	El Nido Irrigation District
5528	Chowchilla Water District
5529	Poso Soil Conservation District
5530	Madera Irrigation District
5602	Ivanhoe Irrigation District

Agency Code	Agency
5603	Kaweah Delta Water Conservation District
5605	Exeter Irrigation District
5606	Lindsay-Strathmore Irrigation District
5607	Lindmore Irrigation District
5608	Porterville Irrigation District
5609	Lower Tule Irrigation District
5611	Saucelito Irrigation District
5613	Delano-Earlimart Irrigation District
5614	South San Joaquin Municipal Utility District
5616	Shafter-Wasco Irrigation District
5626	Rag Gulch Water District
5631	Fresno Irrigation District
5636	Consolidated Irrigation District
5637	Alta Irrigation District
5640	Buena Vista Water Storage District
5644	Arvin-Edison Water Storage District

TABLE C-3
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
OAKDALE I D				52206		
015/09E-16J01 M	0	119.0	12-00-70 03-00-71	63.3 62.5	55.7 56.5	5520
015/09E-36A01 M	4	145.0	12-00-70 03-00-71	50.5 52.6	94.5 92.4	5520
015/10E-19L01 M	4	146.5	12-00-70 03-00-71	55.2 55.2	91.3 91.3	5520
015/10E-28J01 M	4	193.0	12-00-70 03-00-71	86.4 84.4	106.6 108.6	5520
025/09E-26F01 M	4	132.0	12-00-70 03-00-71	51.8 51.1	80.2 80.9	5520
025/10E-04M01 M	4	185.5	12-00-70 03-00-71	77.8 76.2	107.7 109.3	5520
025/10E-33J01 M	4	165.0	12-00-70 03-00-71	58.5 56.4	106.5 108.6	5520
025/11E-29B01 M	0	218.0	12-00-70 03-00-71	91.6 89.3	126.4 128.7	5520
025/11E-31N01 M	4	192.0	12-00-70 03-00-71	74.5 74.0	117.5 118.0	5520
025/12E-31K01 M	4	190.0	12-00-70 03-00-71	41.2 41.5	148.8 148.5	5520
035/10E-15A01 M	4	152.0	12-00-70 03-00-71	44.3 43.4	107.7 108.6	5520
035/11E-18D01 M	4	162.0	12-00-70 03-00-71	54.2 54.2	107.8 107.8	5520
MODESTO I D				52207		
025/08E-25P01 M	4	94.0	10-23-70 11-00-70 03-15-71	36.7 34.3 33.3	57.3 59.7 60.7	5521
025/09E-31G01 M	4	100.3	11-00-70 03-15-71	29.2 29.4	67.8 67.6	5521
035/08E-24C02 M	4	74.0	11-00-70 03-15-71	73.0 16.4	48.0 56.6	5521
035/09E-08D01 M	4	92.5	11-00-70 03-15-71	24.1 25.5	67.9 66.5	5521
035/09E-11M01 M	4	99.0	11-00-70 03-15-71	16.0 16.7	83.0 82.3	5521
035/10E-06G01 M	4	133.1	10-23-70 11-00-70 03-15-71	35.8 35.2 33.8	97.3 97.9 99.3	5521
035/10E-29K01 M	4	119.2	10-23-70 11-00-70 03-15-71	43.8 43.7 44.7	74.2 74.3 73.3	5521
035/10E-32G01 M	4	123.0	10-23-70 11-00-70 03-15-71	54.3 54.1 54.4	65.7 65.9 65.6	5521
045/08E-03F01 M	1	63.0	11-00-70 03-15-71	16.1 13.3	44.9 46.7	5521
TURLOCK I D				52208		
045/08E-27D01 M	1	55.0	10-05-70 03-02-71	7.4 10.0	47.6 45.0	5524
045/09E-21N01 M	1	75.0	10-05-70 03-03-71	6.5 7.9	68.5 67.1	5524
045/10E-21R01 M	1	109.0	03-03-71	15.1	93.9	5524
045/11E-31R01 M	4	128.6	10-02-70 03-02-71	11.0 12.1	117.6 116.5	5524
055/08E-01N01 M	1	53.0	10-02-70 03-02-71	4.3 4.9	48.7 48.1	5524
055/08E-10A01 M	1	49.7	10-02-70 03-02-71	10.9 12.1	38.8 37.6	5524
055/09E-14R01 M	1	75.0	10-02-70 03-02-71	6.1 6.5	68.9 68.5	5524
055/09E-24N01 M	1	75.0	10-02-70 03-02-71	8.2 9.9	66.8 65.1	5524
055/09E-28A01 M	1	63.4	10-02-70 03-02-71	6.1 8.5	57.3 54.9	5524
055/10E-19R01 M	1	82.9	10-02-70 03-02-71	4.7 7.8	78.2 75.1	5524
055/10E-21R01 M	1	92.0	10-02-70 03-02-71	3.7 6.0	88.3 86.0	5524
055/11E-21N01 M	1	125.0	10-01-70 03-01-71	7.8 8.7	117.2 116.3	5524
055/11E-30A01 M	1	117.0	03-01-71	12.3	104.7	5524
055/11E-33N01 M	1	115.5	10-01-70 03-01-71	4.1 7.0	111.4 108.5	5524
TURLOCK I D				52208		
065/09E-15R01 M	1	60.0	10-02-70 03-02-71	- 0.1 1.4	60.1 58.6	5524
065/10E-21A01 M	1	85.6	10-01-70 03-01-71	2.8 5.3	82.8 80.3	5524
065/10E-28D01 M	1	83.6	10-01-70 03-01-71	12.1 10.7	71.5 72.9	5524
065/11E-06N01 M	1	106.2	10-01-70 03-01-71	7.5 9.2	98.7 97.0	5524
065/11E-08R01 M	1	115.0	10-01-70 03-01-71	6.1 9.8	108.9 105.2	5524
MERCED I D				52209		
065/12E-22N01 M	1	150.0	10-05-70 03-03-71	19.9 18.6	131.0 132.2	5050
065/14E-32N01 M	1	178.1	10-08-70 03-01-71	8.1 8.6	170.0 169.5	5525
075/10E-01N01 M	1	90.7	10-02-70 03-04-71	8.8 8.2	81.9 82.5	5525
075/11E-13N01 M	1	106.6	10-06-70 03-03-71	7.5 4.2	99.1 102.4	5525
075/12E-12D01 M	1	144.0	10-05-70 03-03-71	10.9 12.9	132.6 130.6	5050
075/13E-16N01 M	1	151.9	10-05-70 03-03-71	16.0 13.2	136.1 138.9	5525
075/13E-26D01 M	4	155.8	10-07-70 03-03-71	8.1 11.0	147.4 144.5	5050
075/14E-11N01 M	4	192.0	10-08-70 03-01-71	11.4 13.0	180.4 178.8	5050
075/14E-16R01 M	4	197.5	10-08-70 03-01-71	7.5 14.5	180.0 173.0	5525
085/12E-01D01 M	1	120.2	10-07-70 03-01-71	4.6 7.6	115.5 112.5	5525
085/13E-09R01 M	1	135.0	10-07-70 03-02-71	4.7 5.9	130.3 129.1	5525
085/14E-01A01 M	4	196.8	10-06-70 03-02-71	8.5 11.0	189.0 166.5	5525
085/14E-10N01 M	1	172.6	10-06-70 03-02-71	5.3 8.0	167.3 164.6	5050
EL NIDO I D				52210		
095/13E-14M01 M	0	133.0	10-00-70 02-18-71	73.0 72.5	60.0 60.5	5527
095/14E-20R01 M	0	152.0	10-00-70 02-18-71	63.0 55.0	89.0 97.0	5527
DELTA-MENDOTA AREA				52211		
045/06E-04N01 M	2	193.0	10-23-70 03-19-71	159.5 121.5	36.5 74.5	5050
045/06E-09R01 M	1	166.3	10-23-70 03-19-71	124.4 114.6	41.9 51.7	5001
045/07E-27M01 M	1	68.0	11-02-70 03-23-71	23.2 25.6	44.8 47.4	5001
055/07E-14D01 M	1	130.4	11-02-70 03-26-71 05-13-71	78.6 76.8 79.2	51.8 53.6 51.2	5001
055/07E-23L01 M	1	138.0	11-02-70 03-26-71	82.0 82.0	56.0 56.0	5050
055/08E-32K01 M	1	90.9	11-03-70 03-26-71	7.2 8.3	83.7 82.6	5001
065/08E-27J01 M	1	114.5	10-08-70 03-09-71	44.8 57.4	69.7 57.1	5050
085/08E-01N01 M	1	123.2	10-09-70 03-10-71	16.2 20.9	107.0 102.3	5050
085/09E-26H01 M	2	75.0	10-14-70 03-12-71	35.0 15.4	40.0 59.6	5050
085/09E-26H03 M	1	75.0	10-14-70 03-12-71	7.3 1.7	67.7 73.3	5050
085/10E-21L04 M	2	75.0	10-14-70	NM-5		5050
095/09E-23L01 M	2	100.0	10-13-70 03-11-71	58.5 45.2	41.5 54.8	5050
095/10E-19H01 M	3	84.0	10-13-70	2.7	81.3	5050
095/10E-23J01 M	2	87.0	10-14-70 03-11-71	43.5 33.9	43.5 53.1	5050
095/11E-16M01 M	3	91.0	02-25-71	8.9	82.1	5050
045/11E-20J01 M	2	90.5	10-15-70	42.6	47.9	5050

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELTA-MENDOTA AREA				52211		
09S/11E-20J01 M	2	90.5	03-09-71	43.3	47.2	5050
10S/09E-06A01 M	4	147.0	10-14-70 03-10-71	7.0 NM-7	140.0	5050
10S/09E-08R01 M	4	167.0	10-14-70 03-10-71	78.4 NM-6	88.6	5050
10S/10E-02R01 M	1	99.5	10-14-70 03-10-71	19.8 19.3	79.7 80.2	5050
10S/11E-27E02 M	2	101.3	10-13-70 03-10-71	47.4 48.2	53.9 53.1	5050
11S/10E-11J01 M	1	157.3	10-09-70 03-11-71	51.1 5.5	106.2 106.8	5050
12S/12E-06D01 M	0	144.0	10-09-70 03-08-71	5.9 6.7	138.1 137.3	5001
12S/12E-25D01 M	1	177.0	10-12-70 03-08-71	58.3 57.6	118.7 119.4	5001
12S/12E-25D 2 M	1	177.0	10-12-70 03-08-71	7.3 6.8	169.7 170.2	5001
CHOWCHILLA W D				52212		
09S/14E-25R01 M	1	185.0	11-18-70 02-12-71	62.9 60.0	122.1 125.0	5001
09S/15E-25J02 M	4	230.0	11-17-70 02-12-71	41.5 36.2	188.5 193.8	5001
09S/16E-22R01 M	4	267.0	11-16-70 02-16-71	108.2 47.8	158.8 219.1	5001
09S/17E-19L01 M	4	292.0	11-17-70	101.5	190.5	5528
09S/17E-35J01 M	1	320.0	10-12-70 02-16-71	89.8 89.7	229.7 229.8	5001
09S/18E-33D01 M	1	365.0	10-12-70	52.6	309.4	5001
10S/14E-01A01 M	0	179.0	10-07-70 11-24-70 02-18-71	77.6 69.4 63.7	101.4 109.6 115.3	5001
10S/14E-01R02 M	0	177.0	11-24-70 02-18-71	61.2 60.2	115.8 116.8	5528
10S/14E-24R01 M	0	167.0	10-14-70 11-20-70 02-10-71 02-18-71	71.6 69.2 68.7 64.0	95.4 97.8 98.3 103.0	5001
10S/15E-02D01 M	0	212.5	10-14-70 11-24-70 02-15-71	97.6 78.5 75.5	114.9 134.0 137.0	5001
10S/15E-23K01 M	0	195.5	11-20-70 02-17-71	63.2 60.6	132.3 134.9	5001
10S/15E-27D03 M	1	184.0	11-19-70 02-16-71	67.3 58.5	116.7 125.5	5001
10S/16E-19E01 M	4	232.0	11-24-70 02-16-71	75.7 71.5	156.3 160.5	5001
10S/16E-29R01 M	1	209.5	11-16-70 02-19-71	74.0 69.1	134.0 138.9	5001
MADERA I D				52213		
10S/18E-20R01 M	1	326.0	10-13-70 02-16-71	NM-5 NM-6		5001
10S/19E-16D01 M	1	387.0	10-13-70 02-16-71	19.0 22.8	371.0 367.7	5001
11S/16E-06A01 M	1	196.0	10-30-70 02-08-71	66.7 58.4	129.3 137.6	5001
11S/16E-1[illegible]1 M	2	204.0	10-30-70 02-08-71	63.9 61.5	140.1 142.5	5001
11S/17E-27C 1 M	4	250.0	10-07-70 02-11-71	72.7 71.3	177.3 176.7	5001
11S/18E-20N01 M	4	272.5	10-05-70 02-08-71	85.2 70.2	187.3 202.3	5001
11S/18E-27M[illegible] M	4	284.0	10-30-70 02-09-71	79.2 80.7	204.8 203.3	5001
12S/16E-23A[illegible] M	[illegible]	205.0	10-07-70 02-09-71	91.6 64.9	113.4 140.1	5001
12S/17E-[illegible] M	[illegible]	230.0	1[illegible]-30-70 02-09-71	81.2 75.3	148.8 154.7	5001
12S/17E-2[illegible] M	[illegible]	228.0	[illegible]2-10-71	58.5	169.5	5001
12S/17E-26[illegible] M	[illegible]	235.0	10-30-70 02-09-71	56.4 55.9	178.6 179.1	5001
12S/17E-34M 1 M	[illegible]	234.0	10-30-70 02-09-71	52.3 49.9	181.7 184.1	5001
12S/18E-[illegible]9 1 M	[illegible]	288.0	10-30-70	76.2	211.8	5001
MADERA I D				52213		
12S/18E-13R01 M	1	288.0	02-09-71	77.4	201.6	5001
12S/18E-21G01 M	1	265.0	10-05-70 02-09-71	68.4 69.4	196.6 195.6	5001
12S/18E-21H01 M	1	267.0	10-30-70 02-09-71	67.5 67.8	199.5 199.2	5001
12S/19E-28A01 M	4	307.5	10-01-70 02-05-71	89.4 82.5	218.1 225.0	5001
WEST CHOWCHILLA-MADERA AREA				52214		
10S/13E-22R01 M	[illegible]	119.0	10-07-70 02-16-71	13.8 16.8	105.2 102.2	5001
10S/14E-08R03 M	2	147.0	11-23-70 02-16-71	89.5 64.3	57.1 82.7	5001
10S/14E-31H01 M	1	130.0	10-07-70 02-10-71	31.7 28.0	98.3 102.0	5001
10S/14E-35F01 M	1	151.0	10-14-70 02-10-71	74.2 62.1	76.8 88.9	5001
11S/14E-13R01 M	0	150.0	10-08-70 02-17-71	60.2 32.5	89.8 117.5	5001
11S/15E-33E01 M	0	158.0	02-10-71	45.7	110.3	5001
11S/15E-33P01 M	1	158.0	10-08-70 02-10-71	90.9 57.3	67.1 100.7	5001
12S/15E-14L01 M	1	165.1	10-09-70 02-17-71	50.3 49.5	116.7 117.5	5001
13S/16E-02C01 M	1	194.0	10-30-70 02-09-71	78.3 59.3	115.7 134.7	5001
FRESNO I D				52215		
12S/20E-14A01 M	4	365.0	10-01-70 02-08-71	93.0 92.2	272.0 272.8	5001
12S/21E-34D01 M	1	387.7	10-01-70 02-28-71	40.7 41.4	347.0 346.3	5631
12S/22E-21E01 M	4	473.0	10-02-70 02-08-71	23.3 16.7	449.7 456.3	5001
13S/17E-22H01 M	1	220.8	10-01-70 02-28-71	30.7 37.5	190.1 183.3	5631
13S/17E-33D01 M	1	211.0	09-29-70 02-05-71	53.0 52.8	158.0 158.2	5001
13S/18E-10R01 M	4	258.0	09-30-70 02-05-71	49.6 52.2	208.4 205.8	5001
13S/18E-16D01 M	4	253.0	09-30-70	46.9	206.1	5001
13S/18E-34D01 M	4	245.0	09-30-70 02-05-71	51.2 53.0	193.8 192.0	5001
13S/19E-09Q01 M	4	288.2	10-01-70 02-05-71 02-28-71	62.2 68.3 66.0	226.0 221.7 222.2	5001
13S/19E-16K01 M	4	290.0	09-30-70 02-05-71	74.5 73.8	215.5 216.2	5001
13S/20E-02L01 M	4	339.0	10-01-70 02-28-71	92.9 93.0	243.8 243.7	5631
13S/23E-31P01 M	4	406.5	10-01-70 02-26-71	25.2 27.6	381.3 378.9	5631
14S/18E-08J01 M	4	227.4	10-01-70	NM-1		5631
14S/19E-20R02 M	4	245.0	10-01-70 02-25-71	47.4 47.8	199.8 199.4	5631
14S/20E-06J 1 M	4	279.4	10-01-70 02-25-71	64.9 61.1	214.5 218.3	5631
15S/20E-13E02 M	4	282.5	10-01-70 02-26-71	NM-1 30.0	 252.5	5631
CITY OF FRESNO				52216		
13S/20E-21J01 M	4	310.0	10-05-70 04-00-71	101.2 95.6	211.2 216.8	5200
13S/20E-23H 1 M	4	325.0	10-05-70 04-00-71	95.3 91.1	229.7 233.9	5200
13S/20E-28F 1 M	4	299.3	10-05-70 04-00-71	90.0 86.2	209.3 213.1	5200
13S/20E-35H02 M	4	305.3	10-05-70 04-00-71	88.0 86.5	217.3 218.8	5200
14S/20E-10M01 M	4	291.4	10-05-70 04-00-71	81.5 72.8	209.9 218.6	5200
FRESNO SLOUGH AREA				52217		
13S/15E-28M 1 M	1	162.0	09-28-70	52.9	109.1	5001
14S/15E-25M 2 M	1	160.0	10-05-70	35.4	124.6	5001

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
FRESNO SLOUGH AREA				52217		
14S/15E-25H02 M	1	160.0	02-05-71	22.9	137.1	5001
14S/16E-03C01 M	0	177.0	10-05-70 02-04-71	67.5 62.8	109.5 114.2	5001
14S/16E-08D01 M	1	165.0	02-05-71	46.2	118.8	5001
14S/16E-22N01 M	1	163.0	10-05-70 02-05-71	30.0 26.7	134.0 137.3	5001
14S/17E-25A01 M	4	211.0	10-01-70 02-08-71	102.7 90.2	107.3 119.8	5001
15S/16E-12C03 M	2	169.5	10-02-70 02-02-71	32.0 32.6	137.5 136.9	5001
15S/17E-22R01 M	1	187.0	09-30-70 02-09-71	118.0 118.8	67.0 66.2	5001
15S/18E-07A02 M	0	204.0	09-28-70 02-09-71	118.5 106.9	85.5 97.1	5001
15S/18E-16G01 M	4	205.8	09-28-70	115.1	90.9	5001
16S/18E-27C01 M	1	198.0	10-19-70 03-01-71	121.5 117.0	76.5 81.5	5050
16S/19E-34P01 M	0	220.0	03-01-71	101.0	119.0	5050
17S/18E-23A02 M	1	200.0	10-19-70 03-01-71	67.5 71.5	132.0 128.0	5050
CONSOLIDATED I D				52218		
14S/22E-22N01 M	4	355.7	10-02-70 03-00-71	22.5 23.9	333.2 331.7	5636
15S/19E-24N01 M	4	246.6	10-02-70 03-00-71	77.8 73.6	168.7 172.9	5636
15S/20E-28A01 M	4	264.8	10-02-70 03-00-71	47.5 47.0	217.3 217.7	5636
15S/21E-15D01 M	4	301.2	10-02-70 03-01-71	23.0 22.9	278.2 278.2	5636
15S/22E-16A01 M	4	337.0	10-02-70 03-01-71	19.5 21.4	317.5 315.6	5636
15S/22E-29D01 M	4	321.9	10-02-70 03-01-71	22.0 24.6	299.9 297.2	5636
16S/19E-14A01 M	4	235.5	10-02-70 03-01-71	92.7 89.6	142.8 145.8	5636
16S/20E-22N01 M	4	247.7	10-02-70 03-01-71	54.8 55.5	193.4 192.7	5636
16S/21E-22N01 M	4	271.0	10-02-70 03-01-71	40.6 39.4	230.4 231.5	5636
16S/22E-23R01 M	4	297.5	10-02-70 03-01-71	21.1 21.2	276.4 276.2	5636
17S/22E-03C01 M	4	286.0	10-02-70 03-01-71	18.7 20.1	265.3 263.8	5636
ALTA I D				52219		
14S/23E-36R01 M	4	391.0	10-02-70	46.4	344.6	5637
14S/24E-31P01 M	4	395.0	10-02-70 03-03-71	41.5 46.1	353.5 348.9	5001
15S/23E-23A02 M	4	358.0	10-02-70 03-03-71	43.0 42.1	315.0 315.9	5637
15S/24E-22D01 M	4	388.0	10-03-70 03-04-71	28.7 22.6	359.3 365.4	5637
16S/23E-23E01 M	4	314.0	10-01-70 03-03-71	17.1 19.4	296.9 294.6	5637
16S/24E-21J01 M	4	336.0	09-30-70 03-01-71	20.0 21.6	316.0 314.4	5637
16S/25E-29A01 M	4	364.0	09-30-70	35.0	329.0	5637
17S/22E-25A01 M	4	276.0	10-01-70 10-25-70 03-02-71	34.9 31.2 30.3	241.1 243.8 245.7	5637
17S/22E-25J01 M	4	275.0	10-01-70 10-25-70 03-02-71	34.6 31.1 31.0	240.4 241.9 244.0	5637
17S/24E-15A03 M	4	302.0	09-25-70 01-29-71	38.5 15.2	263.5 286.8	5001
17S/25E-10C01 M	4	335.0	09-30-70 03-02-71	28.6 28.5	306.4 306.5	5637
17S/25E-18R01 M	4	321.0	09-30-70 03-02-71	53.7 49.5	267.3 271.5	5637
LOWER KINGS RIVER AREA				52220		
17S/20E-20D01 M	1	223.0	03-02-71	70.0	153.5	5050
17S/21E-11K01 M	0	257.0	03-02-71	30.0	227.0	5050
LOWER KINGS RIVER AREA				52220		
18S/19E-35J02 M	3	211.0	10-21-70 03-02-71	152.0 160.0	59.0 50.0	5050
18S/20E-16A01 M	1	230.0	10-19-70 03-01-71	8.0 9.0	222.0 221.0	5050
18S/21E-10R01 M	1	254.0	10-03-70 02-18-71	64.0 57.6	190.0 196.4	5050
19S/19E-25A01 M	1	208.0	10-19-70 03-01-71	3.5 1.5	204.5 206.5	5050
20S/22E-19M02 M	0	211.0	03-03-71	16.5	194.5	5050
ORANGE COVE I D				52221		
14S/24E-29C02 M	4	430.5	10-05-70 02-02-71	42.5 35.1	388.0 395.4	5001
14S/25E-30D01 M	4	510.0	09-25-70 02-02-71	21.6 19.7	488.4 490.3	5001
15S/24E-14D01 M	4	405.0	10-02-70	16.2	388.8	5001
16S/25E-04C02 M	4	415.0	10-07-70 02-02-71	10.8 9.5	404.2 405.5	5001
STONE CORRAL I D				52222		
17S/25E-01D01 M	4	355.0	09-28-70 09-30-70 01-29-71 03-02-71	26.3 21.8 22.0 18.7	328.7 333.2 333.0 336.3	5001
17S/26E-07R01 M	4	364.0	09-28-70 02-02-71	8.1 4.5	355.9 359.5	5001
IVANHOE I D				52223		
17S/25E-27R01 M	4	350.0	10-01-70 02-01-71	82.3 75.1	267.7 274.9	5001
17S/25E-35M01 M	4	349.0	10-01-70 02-01-71	72.4 63.5	276.6 285.5	5001
17S/25E-36G01 M	4	365.0	02-01-71	60.5	304.5	5001
17S/26E-32N01 M	4	385.0	10-01-70 02-01-71	58.1 54.0	326.9 331.0	5001
17S/26E-34D01 M	4	416.0	10-01-70 02-01-71	53.9 50.8	362.1 365.2	5001
KAWEAH DELTA W C D				52224		
17S/25E-15P01 M	0	340.0	01-29-71	80.6	259.4	5001
17S/26E-17P02 M	4	385.0	09-28-70 02-02-71	7.7 11.7	377.3 373.3	5001
17S/27E-34P01 M	4	473.0	09-28-70 02-01-71	15.6 11.8	454.4 458.2	5001
18S/22E-29A01 M	1	251.0	09-25-70 10-24-70 01-29-71	91.1 87.4 80.9	159.9 163.6 170.1	5001
18S/23E-12H01 M	2	282.5	10-05-70 01-25-71 04-07-71	57.3 43.5 50.5	225.2 239.0 232.0	5001
18S/23E-34A01 M	0	271.0	10-24-70 02-22-71	96.8 98.8	174.2 172.2	5001
18S/24E-26A01 M	4	312.5	10-02-70 01-29-71	63.2 48.0	248.8 264.0	5001
18S/25E-12D01 M	4	363.0	09-28-70 01-29-71	42.5 37.5	320.5 325.5	5001
18S/25E-33F01 M	4	338.0	09-28-70 02-01-71	34.5 34.0	303.5 304.0	5001
18S/26E-27E01 M	4	390.0	09-28-70 02-01-71	19.3 13.3	370.7 376.7	5001
18S/26E-30N01 M	4	367.0	09-29-70 01-25-71	20.9 18.5	346.1 348.5	5001
19S/22E-01N02 M	1	245.0	02-02-71	55.5	189.5	5001
19S/22E-36E01 M	1	234.0	10-04-70 02-15-71	73.4 85.5	160.6 148.5	5001
19S/25E-07K01 M	3	320.0	09-28-70 01-25-71	39.5 35.2	280.5 284.8	5001
19S/26E-34R02 M	0	341.0	09-25-70 01-28-71	77.4 63.5	263.6 277.5	5001
20S/22E-10C01 M	1	226.0	10-06-70 01-25-71	87.7 85.0	138.3 141.0	5001
TULARE I D				52225		
19S/23E-14R01 M	1	270.0	09-30-70 11-03-70 02-12-71	70.5 68.0 63.7	199.5 202.0 206.3	5001
19S/23E-32H01 M	1	250.5	09-30-70	85.2	165.3	5001

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
TULARE I D				52225		
19S/23E-32H01 M	1	250.5	02-12-71	71.2	179.3	5001
19S/24E-16P01 M	1	290.0	10-01-70	80.9	209.1	5001
			02-12-71	67.1	222.9	
19S/24E-27Q01 M	1	290.0	10-02-70	92.3	197.7	5001
			02-13-71	71.3	218.7	
19S/25E-17A02 M	0	328.0	10-09-70	38.3	289.7	5001
			02-23-71	35.8	292.2	
20S/23E-08R02 M	1	241.0	10-19-70	84.0	157.0	5001
			02-17-71	78.5	162.5	
			02-19-71	78.3	162.7	
20S/24E-16M01 M	1	273.0	10-03-70	92.8	180.2	5001
			02-20-71	76.5	196.5	
20S/24E-30J02 M	0	250.0	10-03-70	86.8	163.2	5001
			02-20-71	87.5	162.5	
21S/23E-05R01 M	1	222.0	10-07-70	69.5	152.5	5001
EXETER I D				52226		
18S/26E-25K01 M	4	436.0	09-23-70	44.6	391.4	5001
			01-27-71	42.3	393.7	
18S/26E-34P02 M	4	391.0	09-23-70	49.9	341.1	5001
			01-27-71	44.3	346.7	
18S/27E-29D01 M	4	447.0	10-01-70	20.0	427.0	5001
			01-27-71	19.7	427.3	
19S/26E-14E01 M	4	375.0	09-24-70	71.0	304.8	5001
			01-29-71	67.1	306.3	
19S/26E-23E01 M	4	359.0	09-24-70	78.9	286.6	5001
			01-29-71	67.0	292.5	
LINDSAY-STRATHMORE I D				52227		
20S/27E-06R01 M	4	372.0	09-22-70	43.2	328.8	5001
			09-25-70	42.5	329.5	
			01-28-71	44.4	327.6	
20S/27E-16A01 M	4	426.0	09-22-70	24.6	401.4	5001
			01-28-71	23.7	402.3	
20S/27E-21F01 M	4	414.0	09-22-70	29.4	384.6	5001
			01-28-71	28.2	385.8	
20S/27E-29J01 M	4	406.0	01-28-71	23.5	382.5	5001
21S/27E-01A01 M	4	460.0	09-25-70	23.3	436.7	5001
LINDMORE I D				52228		
20S/26E-01P01 M	4	360.0	09-21-70	76.9	283.1	5001
20S/26E-22C02 M	4	341.0	09-22-70	94.8	246.2	5001
			01-26-71	98.0	243.0	
20S/26E-24K01 M	4	362.5	01-29-71	34.9	327.6	5001
20S/26E-32A01 M	4	331.5	09-24-70	97.7	233.8	5001
			01-27-71	85.0	246.5	
			01-28-71	82.0	249.5	
20S/27E-29E01 M	4	392.0	09-23-70	28.0	364.0	5001
			01-28-71	27.2	354.8	
PORTERVILLE I D				52229		
21S/26E-12A01 M	4	372.0	09-24-70	36.7	335.3	5608
			01-27-71	31.1	340.9	
21S/27E-21C01 M	4	409.0	09-25-70	22.2	386.8	5001
			01-28-71	18.3	390.7	
21S/27E-28E01 M	4	420.0	09-24-70	20.1	399.9	5001
			01-27-71	17.1	402.9	
22S/26E-01J01 M	4	395.0	09-25-70	78.3	316.7	5608
			01-27-71	71.0	324.0	
22S/27E-06D01 M	4	397.0	09-24-70	52.3	344.7	5608
			01-27-71	50.5	346.5	
22S/27E-10A01 M	4	455.0	09-24-70	76.9	378.1	5608
			01-27-71	66.0	389.0	
22S/27E-10R01 M	4	467.0	09-24-70	115.0	352.0	5001
			01-27-71	105.6	361.4	
LOWER TULE RIVER I D				52230		
21S/23E-22J01 M	4	221.5	10-09-70	64.0	158.5	5001
			01-22-71	62.0	160.5	
21S/24E-15H01 M	1	253.0	02-17-71	37.0	216.0	5001
21S/24E-31D01 M	2	230.0	10-29-70	63.8	166.2	5001
			02-01-71	63.6	166.4	
21S/24E-35M01 M	2	251.0	10-29-70	80.0	171.0	5001
			02-01-71	75.8	175.2	
21S/25E-08H01 M	3	285.0	10-05-70	101.0	185.0	5001
			11-17-70	67.0	219.0	
LOWER TULE RIVER I D				52230		
21S/25E-08H01 M	3	285.0	02-17-71	56.2	229.8	5001
21S/26E-06G02 M	2	322.0	10-29-70	65.0	257.0	5001
			02-01-71	36.0	286.0	
21S/26E-10E01 M	4	350.0	10-29-70	39.2	310.8	5001
			02-01-71	37.9	312.1	
22S/24E-09A01 M	1	245.0	10-29-70	116.3	128.7	5001
			02-01-71	107.7	137.3	
22S/24E-15A01 M	1	251.5	10-01-70	136.4	116.6	5001
			02-01-71	126.1	126.9	
22S/25E-10E01 M	1	296.0	10-29-70	87.4	208.6	5001
			02-01-71	97.3	198.7	
22S/25E-16A01 M	1	300.5	10-07-70	129.2	173.8	5001
			01-29-71	132.3	170.7	
22S/26E-06A01 M	1	337.0	09-21-70	109.0	228.0	5001
			01-25-71	103.5	233.5	
VANDALIA I D				52231		
22S/28E-07Q01 M	4	524.0	01-28-71	134.9	389.1	5001
22S/28E-17N01 M	4	577.0	09-25-70	175.4	401.6	5001
			01-29-71	156.4	420.6	
22S/28E-18A01 M	4	535.0	09-25-70	122.5	412.5	5001
			01-29-71	129.1	405.9	
SAUCELITO I D				52232		
22S/26E-15J01 M	4	371.0	09-21-70	129.5	241.5	5001
			09-24-70	140.6	230.4	
			01-25-71	126.5	244.5	
23S/26E-02R01 M	4	397.0	09-23-70	151.0	245.0	5001
			01-25-71	144.5	251.5	
23S/26E-03R01 M	4	381.0	09-23-70	174.0 -	207.0	5001
			01-28-71	170.5	210.5	
PIXLEY I D				52233		
22S/25E-25N01 M	2	310.0	09-24-70	213.1	96.9	5001
23S/23E-02B01 M	1	207.0	09-24-70	35.4	171.6	5001
			01-29-71	35.9	171.1	
23S/24E-16R01 M	3	222.0	09-24-70	132.6	89.4	5001
			11-19-70	129.0	93.0	
			01-27-71	122.4	99.6	
23S/25E-14C01 M	1	300.0	09-23-70	56.6	243.4	5001
			01-28-71	52.8	247.2	
23S/25E-16N04 M	2	263.0	12-15-70	79.9	183.1	5001
23S/26E-08R01 M	4	345.0	09-23-70	181.5	163.5	5001
			01-28-71	166.8	178.2	
ALPAUGH-ALLENSWORTH AREA				52234		
23S/24E-35A02 M	2	235.0	09-24-70	201.0	34.0	5001
			11-18-70	168.0	67.0	
			01-28-71	144.9	90.1	
24S/23E-05R02 M	2	210.0	09-22-70	296.0	- 86.0	5001
			10-29-70	287.0	- 77.0	
			01-25-71	194.6	15.4	
24S/23E-21B02 M	1	205.0	09-22-70	74.8	130.2	5001
			01-25-71	68.2	136.8	
24S/23E-34R01 M	3	206.0	09-22-70	248.7	- 43.7	5001
			01-25-71	207.7	- 2.7	
24S/24E-20R01 M	0	218.0	01-27-71	108.0	110.0	5001
24S/24E-22R01 M	0	233.0	09-23-70	225.7	7.3	5001
			01-27-71	145.8	87.2	
24S/24E-34F01 M	1	232.0	09-23-70	99.2	132.8	5001
			11-06-70	92.0	140.0	
			01-25-71	87.0	145.0	
24S/25E-17P01 M	1	268.0	01-26-71	90.9	176.6	5001
DELANO-EARLIMART I D				52235		
23S/25E-27J02 M	4	296.0	09-24-70	91.0	205.0	5001
			01-28-71	85.0	211.0	
23S/26E-29P01 M	4	356.5	09-25-70	175.5	181.5	5001
			01-28-71	162.5	194.5	
23S/27E-27G01 M	4	552.0	01-25-71	335.7	216.3	5001
24S/25E-02H01 M	1	321.0	09-23-70	100.7	220.3	5001
			11-12-70	101.5	218.5	
			01-27-71	92.0	229.0	
24S/25E-10A01 M	3	304.0	09-23-70	132.5	171.5	5001
			01-28-71	107.5	196.5	
24S/25E-33J01 M	1	291.5	09-23-70	59.7	232.3	5001

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
DELANO-EARLIMART I D				52235		
24S/25E-33J01 M	1	291.5	01-26-71	49.9	242.1	5001
24S/26E-05R01 M	4	376.0	09-23-70 01-26-71	165.0 156.0	211.0 220.0	5001
24S/26E-20M01 M	4	378.0	09-23-70 01-27-71	149.0 128.0	229.0 250.0	5001
24S/26E-29R02 M	4	400.0	09-23-70 01-27-71	144.0 126.0	257.0 275.0	5000
24S/26E-32G01 M	4	396.0	09-23-70 01-27-71	118.0 108.0	279.0 289.0	5001
24S/26E-34F01 M	4	445.0	12-15-70	216.7	228.3	5000
25S/26E-10B03 M	4	430.0	09-21-70 01-26-71	198.5 180.5	231.5 249.5	5001
25S/26E-16P01 M	2	388.0	09-22-70 01-27-71	74.7 79.6	313.3 308.4	5000
25S/27E-22M01 M	4	750.0	09-22-70 11-06-70 01-26-71	449.0 450.0 446.5	301.0 300.0 303.5	5001
SOUTHERN SAN JOAQUIN MUD				52236		
25S/25E-36R02 M	2	335.0	09-29-70 01-27-71	205.4 167.9	129.6 167.1	5001
25S/26E-28M02 M	4	414.0	09-25-70 01-27-71	173.5 160.9	241.5 254.1	5001
26S/26E-16P01 M	4	443.0	09-28-70 01-27-71	304.0 291.4	139.0 151.6	5001
NORTH KERN W S D				52237		
26S/25E-15P01 M	3	346.7	09-29-70 02-16-71	218.0 168.0	128.3 178.7	5000
26S/26E-30P01 M	4	392.0	09-30-70	241.0	158.5	5700
27S/25E-01N01 M	3	394.0	09-30-70 02-05-71	88.2 196.0	305.8 198.0	5000
27S/25E-01N03 M	2	394.0	09-30-70 02-05-71	277.0 244.0	117.0 150.0	5000
27S/27E-30M02 M	4	527.0	09-23-70	448.2	76.8	5001
28S/26E-21M01 M	4	388.0	09-30-70 02-02-71	161.5 168.0	228.5 220.0	5000
28S/26E-21M03 M	5	388.0	02-02-71	227.0	161.0	5000
SHAFTER-WASCO I D				52238		
27S/24E-01L02 M	2	322.0	09-28-70 01-25-71	258.5 189.5	63.5 132.5	5000
27S/25E-28A01 M	1	375.0	02-05-71	231.0	144.0	5000
28S/25E-16P01 M	1	329.0	09-22-70	209.5	119.5	5000
KERN RIVER DELTA AREA				52240		
28S/26E-29L01 M	6	349.0	09-24-70 09-30-70	160.1 158.0	188.9 192.0	5700
29S/25E-12M03 M	2	330.0	09-18-70 01-22-71	169.3 156.5	160.7 173.5	5000
30S/25E-17E01 M	1	300.6	10-05-70	NM-2		5640
30S/25E-22D01 M	1	308.5	10-05-70 02-01-71	53.0 53.9	255.5 254.6	5640
30S/26E-22P02 M	1	338.0	09-17-70	98.5	239.5	5000
30S/28E-32R01 M	1	354.4	09-22-70 01-26-71	109.0 102.5	244.0 250.5	5001
31S/26E-35D01 M	1	294.5	01-19-71	NM-6		5121
31S/27E-28J01 M	1	312.1	09-15-70 01-19-71	72.5 78.5	239.6 233.6	5121
32S/27E-18E01 M	1	292.6	09-22-70 01-24-71	NM-1 112.3	 179.3	5700
32S/28E-04R01 M	0	301.0	09-21-70 01-25-71	60.2 45.0	240.8 256.0	5001
EDISON-MARICOPA AREA				52241		
11N/18W-18M01 S	1	726.0	10-02-70	508.6	217.4	5644
11N/19W-04M01 S	1	575.9	10-06-70	432.7	143.3	5644
11N/20W-07Q01 S	1	452.3	09-22-70 01-24-71	NM-3 326.9	 125.4	5700
11N/20W-24A01 S	1	730.2	09-22-70 01-24-71	586.7 583.7	143.6 146.6	5700
11N/21W-05M01 S	3	515.9	09-22-70	442.1	73.8	5700
29S/29E-33N01 M	4	578.0	09-16-70	447.6	132.4	5644
EDISON-MARICOPA AREA				52241		
29S/29E-33N01 M	4	578.0	01-20-71	435.6	142.4	5644
30S/28E-02R01 M	1	410.0	09-22-70 01-26-71	221.6 220.9	189.4 190.1	5001
30S/28E-10N01 M	2	372.0	09-21-70 01-27-71	51.0 50.6	322.0 322.4	5000
30S/28E-10N04 M	0	372.0	09-21-70 01-27-71	193.2 179.9	179.8 193.1	5000
30S/29E-05F01 M	4	515.0	01-20-71	344.7	170.3	5644
30S/29E-26A01 M	4	628.0	09-18-70 01-29-71	482.3 479.4	145.7 148.6	5644
30S/30E-20R01 M	4	791.5	01-21-71	200.2	593.8	5644
31S/29E-29A01 M	1	400.0	09-21-70 01-25-71	161.7 141.7	238.3 258.3	5001
32S/28E-23R01 M	0	386.7	10-02-70 02-05-71	293.6 271.4	92.4 115.6	5644
32S/29E-19M02 M	1	416.0	09-21-70 02-12-71	204.4 201.6	211.6 214.4	5000
32S/29E-19M03 M	3	416.0	09-21-70 02-09-71	327.5 300.0	88.5 116.0	5000
BUENA VISTA W S D				52242		
27S/22E-21F02 M	1	240.0	09-23-70 02-02-71	14.0 13.0	226.0 227.0	5121
28S/22E-09D01 M	3	240.0	01-26-71	11.5	228.5	5000
28S/23E-31R01 M	1	257.8	10-02-70 02-01-71	35.9 28.8	221.9 229.0	5640
29S/23E-08A01 M	1	260.3	10-02-70 02-01-71	28.2 31.7	230.8 227.3	5640
29S/23E-25J01 M	0	275.0	07-28-71	96.5	178.5	5050
30S/23E-01D01 M	0	276.8	10-03-70 02-01-71	55.7 59.4	221.1 221.4	5640
30S/24E-02E01 M	1	287.0	10-05-70 02-01-71	90.0 88.8	198.7 198.9	5640
30S/24E-04E01 M	2	282.0	09-17-70 01-22-71	72.0 98.5	210.0 183.5	5000
31S/25E-27F01 M	1	283.0	09-15-70	56.4	223.6	5000
SEMITROPIC W S D				52243		
25S/22E-02N02 M	1	212.0	09-22-70 02-03-71	76.4 90.4	135.6 121.6	5000
25S/22E-14G01 M	1	215.0	09-22-70 02-03-71	251.0 178.0	- 36.0 37.0	5121
25S/23E-28D01 M	1	217.0	09-22-70 02-02-71	108.0 99.5	109.0 117.5	5000
25S/24E-10K01 M	1	240.0	09-21-70 01-26-71	58.7 59.5	181.3 180.5	5001
25S/24E-15M01 M	2	248.0	09-22-70 01-27-71	83.3 80.2	164.7 167.8	5000
25S/24E-30M01 M	1	237.4	09-21-70	273.4	- 35.4	5001
26S/21E-14J01 M	1	237.0	02-03-71	27.5	209.5	5121
26S/24E-23M01 M	2	295.5	09-29-70 02-05-71	NM-1 186.0	 110.4	5700
27S/23E-01R01 M	1	267.0	09-21-70 02-01-71	96.0 96.5	171.0 170.5	5000
27S/23E-01R04 M	2	267.0	09-21-70 02-01-71	272.5 211.5	- 5.5 55.5	5000
27S/23E-01R05 M	2	267.0	09-21-70 02-01-71	270.5 204.5	- 3.5 62.5	5000
27S/23E-06L01 M	0	258.0	09-21-70 02-01-71	30.5 30.0	227.5 228.0	5121
28S/23E-11E01 M	1	255.0	10-02-70 02-01-71	38.6 33.3	216.4 221.7	5640
29S/24E-14R01 M	1	290.0	01-22-71	55.0	235.0	5121
AVENAL-MCKITTRICK AREA				52244		
23S/19E-26M01 M	4	267.0	07-26-71	68.0	199.0	5050
25S/20E-04C01 M	1	268.0	07-27-71	60.0	208.0	5121
26S/18E-19M02 M	4	875.0	02-04-71	162.0	713.0	5121
28S/22E-20M01 M	1	290.0	07-28-71	67.5	222.5	5050
TULARE LAKE-LOST HILLS AREA				52245		
22S/19E-18P02 M	0	255.0	07-26-71	181.0	74.0	5050

TABLE C-3 (Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	AQUIFER	GROUND WATER ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY CODE
TULARE LAKE-LOST HILLS AREA				52245		
22S/21E-01J01 M	2	185.5	10-20-70	107.0	79.0	5050
23S/19E-14R01 M	0	235.0	07-26-71	38.7	196.3	5050
24S/21E-15J01 M	1	211.0	10-28-70 03-04-71	13.5 20.5	197.5 190.5	5050
24S/21E-26R01 M	1	210.0	10-21-70 10-28-70 03-04-71	14.0 12.0 15.5	196.0 198.0 194.5	5050
24S/22E-35E01 M	2	213.0	10-29-70	240.0	- 27.0	5050
25S/21E-30K01 M	1	237.5	07-27-71	36.2	201.3	5050
26S/21E-22D01 M	1	281.0	02-03-71	NM-2		5050
CORCORAN I D				52246		
20S/22E-35R01 M	1	216.0	03-03-71	40.5	175.5	5050
21S/22E-21P01 M	2	192.0	10-21-70 03-03-71	97.0 93.0	95.0 99.0	5050
21S/22E-27A01 M	0	196.0	03-03-71	12.0	184.0	5050
22S/22E-01R02 M	1	201.0	10-28-70 03-03-71	8.5 11.5	192.5 189.5	5050
22S/22E-05L01 M	2	188.0	10-20-70 10-28-70 03-03-71	93.0 93.0 90.0	95.0 95.0 98.0	5050
22S/22E-10A01 M	2	192.0	03-03-71	92.6	99.4	5050
22S/22E-13P01 M	1	193.0	10-28-70 03-03-71	10.0 11.0	183.0 182.0	5050
22S/22E-15C01 M	2	191.0	03-03-71	90.5	100.5	5050
22S/22E-22H01 M	2	191.0	03-03-71	97.0	94.0	5050
MENDOTA-HURON AREA				52247		
13S/12E-22N01 M	2	280.0	10-13-70 03-09-71	138.0 121.2	142.0 158.8	5001
14S/12E-12H01 M	2	338.0	12-17-70	508.0	- 170.0	5000
14S/15E-18E02 M	2	178.0	10-06-70 12-15-70 02-05-71	209.6 200.0 198.0	- 30.1 - 22.0 - 20.0	5050
15S/13E-11D02 M	2	345.0	12-17-70	522.4	- 177.4	5000
15S/14E-15E04 M	2	236.0	10-15-70 03-02-71	324.0 330.0	- 88.0 - 94.0	5000
15S/16E-17L01 M	1	165.0	10-15-70 03-02-71	44.0 44.5	121.0 120.5	5000
15S/16E-28A04 M	2	169.0	10-15-70 03-02-71	174.8 164.1	- 4.8 5.9	5000
16S/15E-02N02 M	1	219.0	10-06-70	96.3	122.7	5001
16S/15E-34N04 M	2	334.0	12-17-70	524.3	- 190.3	5000
16S/16E-10N01 M	1	187.0	10-02-70	133.9	53.1	5001
17S/16E-30A03 M	1	290.0	10-15-70 03-02-71	66.5 66.3	225.5 225.7	5000
17S/16E-30A06 M	2	302.0	10-15-70 03-02-71	496.0 458.5	- 194.0 - 166.5	5000
17S/17E-20N01 M	3	228.0	01-05-71	300.0	- 72.0	5050
19S/18E-15M01 M	2	274.0	12-19-70	347.0	- 73.0	5050
20S/17E-32F01 M	0	447.0	12-16-70	616.0	- 169.0	5050
20S/18E-06D01 M	2	317.9	12-16-70	509.1	- 192.2	5000
20S/18E-11N01 M	3	277.0	12-17-70	337.0	- 60.0	5050
20S/18E-11Q01 M	1	270.0	12-16-70	427.9	- 159.9	5000
ROSC SOIL C D				52248		
10S/13E-06R01 M	1	110.0	07-17-71	12.3	97.7	5529
11S/13E-05Q01 M	1	117.0	07-17-71	12.2	114.8	5529
11S/13E-26A01 M	1	128.0	07-17-71	15.5	112.5	5529
11S/13E-33L01 M	1	126.0	07-17-71	9.4	116.6	5529
12S/13E-13J01 M	1	140.0	07-17-71	13.6	126.4	5529
TERRA BELLA I D				52250		
22S/27E-25J03 M	0	532.0	09-24-70	108.0	424.0	5001
23S/27E-01A01 M	4	506.0	09-24-70 01-25-71	85.0 82.8	421.0 423.2	5001
23S/27E-05A01 M	4	450.0	01-25-71	147.9	301.5	5001
MERCED BOTTOMS				52254		
07S/12E-27F01 M	0	110.5	03-11-71	6.2	104.3	5050
MERCED BOTTOMS				52254		
08S/12E-19D01 M	0	90.0	10-21-70 03-11-71	17.8 11.0	72.2 79.0	5050
09S/12E-01C01 M	1	110.5	10-19-70 03-15-71	44.5 24.8	66.0 85.2	5050
09S/14E-06D01 M	0	141.0	10-06-70 02-05-71	42.3 41.9	98.7 99.1	5050
GARFIELD W D				52265		
12S/20E-13A01 M	4	388.0	10-06-70 02-10-71	111.4 110.7	276.6 277.3	5001
12S/21E-07A02 M	4	405.5	10-06-70 02-10-71	119.2 118.3	286.3 287.2	5001
12S/21E-18A03 M	0	390.5	10-06-70 02-10-71	91.9 91.4	298.6 299.1	5001
KINGS COUNTY W D				52266		
17S/20E-36R02 M	0	243.0	10-03-70 02-18-71	15.7 15.9	227.3 227.1	5129
17S/22E-11P01 M	4	283.0	10-04-70 02-17-71	22.2 21.4	260.8 261.6	5129
17S/22E-35N01 M	4	266.0	10-03-70 02-16-71	33.6 31.1	232.4 234.9	5129
18S/21E-17N01 M	1	238.0	10-03-70 02-18-71	9.2 10.0	228.8 228.0	5129
18S/22E-21H01 M	1	258.0	10-04-70 02-22-71	78.3 71.8	179.7 186.2	5129
18S/22E-36P01 M	2	245.0	10-04-70 10-05-70 01-25-71	93.2 92.5 96.5	151.8 152.5 148.5	5001
18S/23E-28B01 M	1	263.0	10-03-70 02-22-71	102.8 83.8	160.2 179.2	5129
19S/21E-20N01 M	1	225.0	10-04-70 02-23-71	9.4 10.4	211.1 214.6	5129
19S/22E-04B01 M	0	245.0	10-03-70 02-16-71	84.3 73.4	160.7 171.6	5129
19S/22E-19A01 M	2	235.0	10-04-70 02-23-71	102.7 70.5	132.3 164.5	5001
19S/22E-23A01 M	3	240.0	10-06-70 01-28-71	65.5 67.0	175.0 173.5	5129
20S/21E-03A01 M	1	222.0	10-06-70 11-03-70 01-21-71	11.5 11.5 6.0	208.5 208.5 219.4	5001
20S/21E-05E01 M	2	219.0	10-04-70 02-15-71	139.0 123.1	80.0 95.9	5129
20S/22E-10H02 M	2	225.0	02-25-71	90.3	134.7	5129
PLEASANT VALLEY				52269		
20S/15E-25D01 M	4	319.0	01-14-71	227.0	392.0	5050
20S/15E-32A01 M	4	675.0	01-14-71	233.0	442.0	5050
21S/16E-07N01 M	4	634.0	01-14-71	240.0	394.0	5050
21S/16E-35D01 M	4	682.0	01-15-71	330.0	352.0	5050

APPENDIX D

SURFACE WATER QUALITY

INTRODUCTION

Appendix D summarizes the surface water quality and electrical conductivity data for the San Joaquin Valley for 1971 water year (October 1, 1970 through September 30, 1971). These data were obtained from analyses of water samples from 41 surface water quality sampling stations and 6 electrical conductivity recorders. Water samples are collected by the Department of Water Resources; the U. S. Corps of Engineers; U. S. Forest Service; California Regional Water Quality Control Board, Central Valley Region; and Kern County Department of Parks and Recreation. Electrical conductivity recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples reported herein were performed in accordance with the 13th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight-digit identification number. The first two digits denote the drainage basin as shown below. The remaining digits identify each station.

HYDROGRAPHIC AREA B
SAN JOAQUIN RIVER BASIN

B0	San Joaquin Valley Floor
B3	Stanislaus River
B4	Tuolumne River
B5	Merced River
B6	Fresno-Chowchilla Rivers
B7	San Joaquin River
B8	San Joaquin Valley on West Side

HYDROGRAPHIC AREA C
TULARE LAKE DRAINAGE BASIN

C0	Tulare Lake Valley Floor
C1	Kings River
C2	Kaweah River
C3	Tule River
C4	Greenhorn Mountains
C5	Kern River
C6	Tehachapi Mountains
C7	Tulare Lake Basin on West Side

TABLE D-1

SURVEILLANCE STATION DATA AND INDEX FOR SURFACE WATER

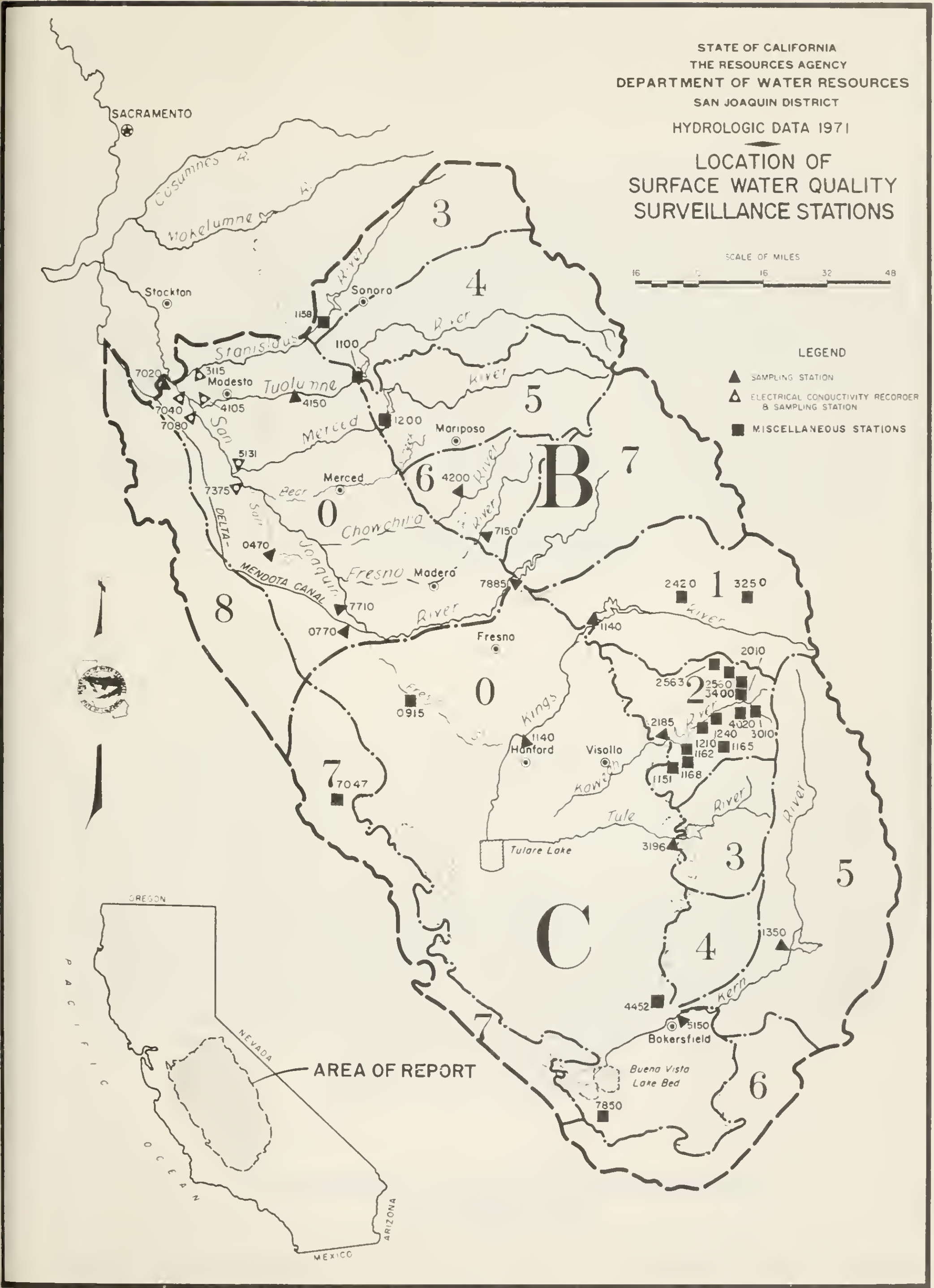
	Station Identification Number	Location[a]	Period of Record[b]	Frequency of Sampling[c]	Sampled By[d]	Analysis on Page
Cantua Creek above Highway 33	C77047.30	17S/14E-36			DWR	171, 174
Chowchilla River near Raymond	B64200.00	8S/18E- 1	January 1962	S	DWR	169, 173
Delta-Mendota Canal to Mendota Pool	B00770.00	13S/15E-19	July 1952	S	DWR	168, 173
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	S	DWR	169, 173
Fresno Slough at Butte Avenue	C00915.30	16S/17E- 8			DWR	173
Horse Creek above Highway 198	C21151.30	18S/28E- 4			CRWQCB	170
Jim Gray Creek below Wells Creek	C21162.30	18S/28E-27			CRWQCB	170
Jim Gray Creek near Headwaters	C21168.30	18S/28E-14			CRWQCB	170
Kaweah River at North Fork Drive	C21240.30	17S/28E-24			CRWQCB	176
Kaweah River below Terminus Dam	C02185.00	17S/27E-25	September 1961	S	USACE	170, 173
Kaweah River, East Fork near Mouth	C23010.30	17S/29E- 4			CRWQCB	176
Kaweah River, Inflow to Lake Kaweah	C21210.30	17S/28E-34			CRWQCB	176
Kaweah River, Middle Fork above Buckeye Flat	C23400.30	16S/29E-19			CRWQCB	176
Kaweah River, North Fork near Mouth	C22010.30	17S/28E-13			CRWQCB	176
Kaweah River, South Fork near Mouth	C24020.30	17S/28E-26			CRWQCB	176
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	S	DWR	170, 174
Kern River near Bakersfield	C05150.00	29S/28E- 9	April 1951	S	KCPRD	170, 174
Kings River below Peoples Weir	C01140.00	17S/22E- 1	April 1951	S	DWR	170, 173
Kings River below Pine Flat Reservoir	C11140.00	13S/24E- 2	September 1955	S	USACE	170, 174
Merced River at Milliken Bridge	B05131.00	6S/ 9E-36	April 1951	S	DWR	168, 173
Merced River below Exchequer Dam	B51200.00	4S/15E-14			DWR	173
Poso Creek at Head of Diversion Canal	C04452.30	27S/27E-30			DWR	174
Rattlesnake Creek below Burn	C13250.30	11S/30E- 0			USFS	170
Redwood Creek above Buena Vista Creek	C22563.30	14S/28E-15			USFS	170, 176
Redwood Creek below Buena Vista Creek	C22560.30	14S/28E-14			USFS	170, 176
Salt Slough near Stevinson	B00470.00	8S/10E-10	October 1969	S	DWR	168, 173
Sandy Creek at Gardner Field Road	C07850.30	32S/24E-20			KCWA	170
San Joaquin River at Fremont Ford Bridge	B07375.00	7S/ 9E-24	July 1955	Q	DWR	169, 173
San Joaquin River below Friant	B07885.00	11S/21E- 7	April 1951	S	DWR	169, 173
San Joaquin River at Maze Road Bridge	B07040.00	3S/ 7E-33	April 1951	S	DWR	169, 173
San Joaquin River near Grayson	B07080.00	4S/ 7E-24	April 1959	Q	DWR	169, 173
San Joaquin River near Mendota	B07710.00	13S/15E- 7	April 1951	S	DWR	169, 173
San Joaquin River near Vernalis	B07020.00	3S/ 6E-13	April 1951	M	DWR	168, 173, 176
Stanislaus River at Koetitz Ranch	B03115.00	3S/ 7E- 2	April 1951	S	DWR	168, 173
Stanislaus River below Tulloch Dam	B31158.10	1S/12E- 2			DWR	173
Tule River below Success Dam	C03196.00	21S/28E-35	July 1952	S	USACE	170, 174
Tuolumne River at Hickman Bridge near Waterford	B04150.00	3S/11E-34	April 1951	S	DWR	168, 173
Tuolumne River at Tuolumne City	B04105.00	4S/ 8E-12	April 1951	S	DWR	168, 173
Tuolumne River below Don Pedro Dam	B41100.00	3S/14E- 3			DWR	173
Wells Creek near Headwaters	C21165.30	18S/28E-25			CRWQCB	170
Wishon Reservoir near Cliff Camp	C12420.00	11S/27E-12			DWR	174

a. Locations are in reference to Mt. Diablo Base and Meridian

b. Beginning of record - regular stations only

c. M - Monthly, Q - Quarterly, S - Semiannually, all others irregular

d. DWR - Department of Water Resources; USACE - United Army Corps of Engineers; CRWQCB - California Regional Water Quality Control Board, Central Valley Region; KCPRD - Kern County Parks and Recreation; USFS - United States Forest Service; KCWA - Kern County Water Agency

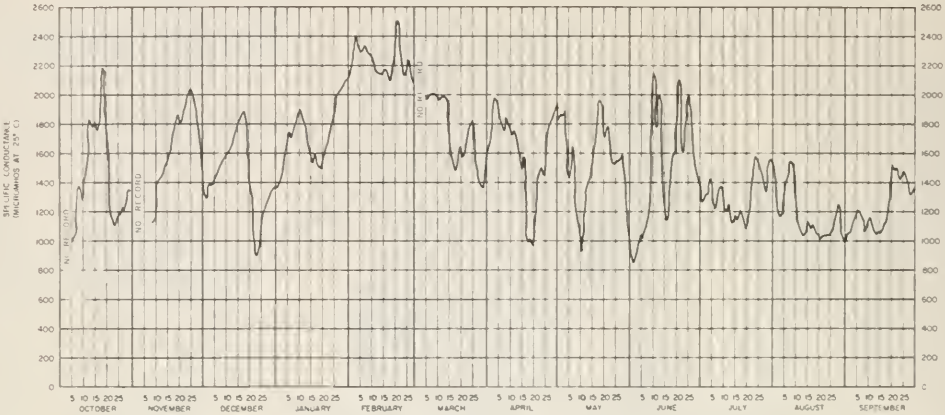


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

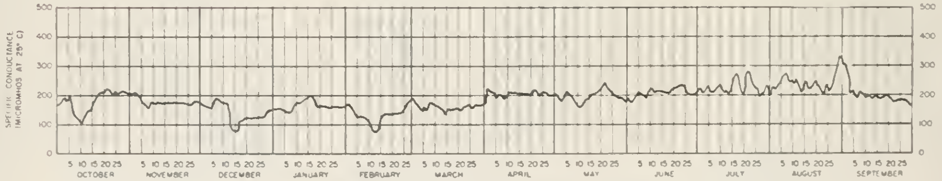
HYDROLOGIC DATA 1971

LOCATION OF SURFACE WATER QUALITY SURVEILLANCE STATIONS

FIGURE D-2

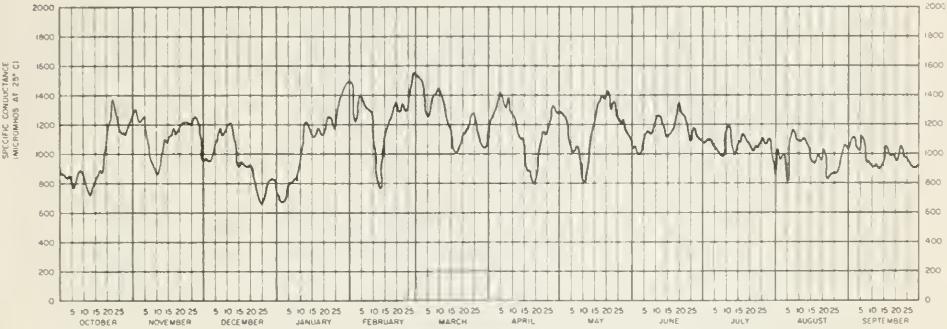


SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE
STA. No. B07375.00 RIVER MILE 129.5

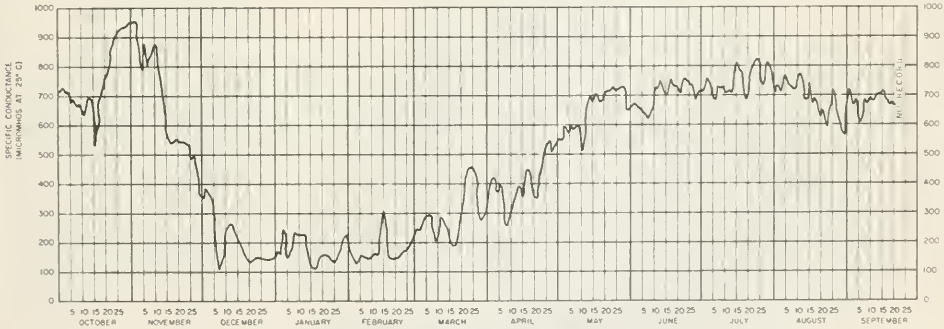


MERCED RIVER AT MILLIKEN BRIDGE
STA. No. B05131.00 RIVER MILE 11.65

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1971

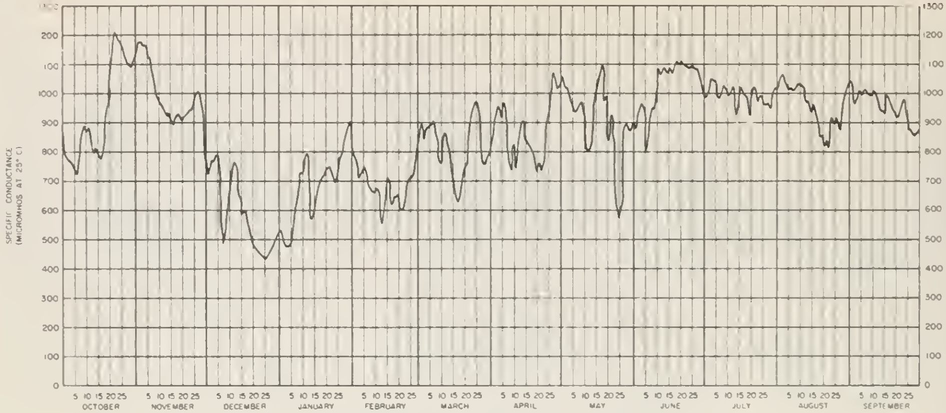


SAN JOAQUIN RIVER NEAR GRAYSON AT LAIRD SLOUGH
STA. No. B07080.00 RIVER MILE 96.05

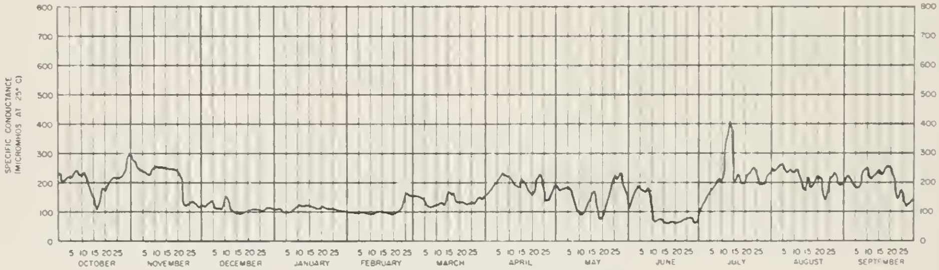


TUOLUMNE RIVER AT TUOLUMNE CITY
STA. No. B04105.00 RIVER MILE 3.35

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1971



SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. B07040.00 RIVER MILE 81.95



STANISLAUS RIVER AT KOETITZ RANCH
STA. No. B03115.00 RIVER MILE 9.4

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1971

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources' Bryte Laboratory (coded 5050), the U. S. Geological Survey's Sacramento or Salt Lake City Laboratory (coded 5000), or the Twining Laboratory (coded 5802).

The sampler codes are as follows:

5002	U. S. Army Corps of Engineers
5005	U. S. Forest Service
5121	Kern County Water Agency
5050	Department of Water Resources
5055	California Regional Water Quality Control Board, Central Valley Region
5633	Kern County Parks and Recreation Department
5703	Valley Waste Disposal Company

The following are definitions of chemical symbols and of abbreviations used in this table.

Chemical Symbols	
Ca	Calcium
Mg	Magnesium
Na	Sodium
K	Potassium
CO_3	Carbonate
HCO_3	Bicarbonate
SO_4	Sulfate
Cl	Chloride
NO_3	Nitrate
F	Fluoride
B	Boron
SIO_2	Silica

Abbreviations	
TEMP	Temperature
DO	Dissolved Oxygen
SAT	Percent Saturation
GH	Gage Height
Q	Flow
FLD	Field Determination
LAB	Laboratory
EC	Specific Electrical Conductance in micromhos
pH	Measure of acidity or alkalinity of water
TDS	Total Dissolved Solids
SUM	Summation of analyzed constituents
TH	Total Hardness
NCH	Non-carbonate Hardness
TURB	Turbidity in Turbidity Units
SAR	Sodium Absorption Ratio

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H.	DO SAT	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
							CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB SAR
	80 0470.00				SALT SLOUGH NR STEVINSON															
02/17/71	5050		11.1	59.0F	8.1	3350	166	75	465	6.8	.0	239	804	528	28.0	4.20	--	2260	723	
1415	5050		110	15.0C	7.7	3380	8.28	6.17	20.23	.17	.00	3.92	16.74	14.89	.45		--	2195	527	7.5
							24	18	58			11	47	41	1					
03/04/71	5050	2.10	10.9	49.0F	7.6	2000	104	44	264	6.2	.0	96	421	338	19.0	2.20	--	1270	441	
1120	5050		95	9.4C	8.2	1980	5.19	3.62	11.48	.16	.00	1.57	8.77	9.53	.31		--	1246	362	5.5
							25	18	56	1		8	43	47	2					
07/07/71	5050		4.5	75.0F	7.6	1000	58	25	132	4.4	.0	168	148	172	8.2	.60	--	683	249	
0850	5050		53	23.9C	8.0	1120	2.89	2.06	5.74	.11	.00	2.75	3.08	4.85	.13		--	631	110	3.7
							27	19	53	1		25	28	45	1					
08/14/71	5050			70.0F	7.3	850	43	20	93	3.4	.0	155	99	124	3.5	.50	--	491	191	
0615	5050			21.1C	8.0	852	2.15	1.64	4.05	.09	.00	2.54	2.06	3.50	.06		--	463	63	2.9
							27	21	51	1		31	25	43	1					
	80 0770.00				DELTA MENDOTA CANAL NR MENDOTA															
01/06/71	5050		10.8	43.0F	8.2	525	--	--	49	--	.0	98	--	57	--	.40	--		116	
0900	5050		87	6.1C	8.1	459			2.13		.00	1.61		1.61			--			
									46			35		35						
03/03/71	5050		13.0	51.0F	8.0	650	33	14	63	1.9	.0	96	82	86	4.2	.20	--	330	140	
1305	5050		116	10.5C	8.1	602	1.65	1.15	2.74	.05	.00	1.57	1.71	2.43	.07		--	332	62	2.3
							30	21	49	1		27	30	42	1					
05/11/71	5050		10.6	66 F	8.0	740	39	18	90	--	.0	135	--	112	5.7	--	--		175	
0745	5050		113	19 C	8.3	771	1.95	1.55	3.92		.00	2.21		3.16	.09		--		65	3.0
							25	20	51			29		41	1					
07/06/71	5050	5.00	7.1	76.0F	7.3	190	15	6.5	17	1.6	.0	65	20	19	2.4	.00	--	127	64	
1520	5050		84	24.4C	7.9	220	.75	.53	.74	.04	.00	1.07	.42	.54	.04		--	113	11	0.9
							36	26	36	2		52	20	26	2					
	80 3115.00				STANISLAUS RIVER AT KOETITZ RANCH															
03/02/71	5050	0.18	12.2	51.0F	7.2	155	15	4.5	6.6	.9	.0	72	6.6	4.5	3.0	.00	--	99	56	
1515	5050		109	10.5C	7.8	145	.75	.37	.29	.02	.00	1.18	.14	.13	.05		--	77	3	0.4
							52	26	20	1		79	9	9	3					
07/07/71	5050	6.90	7.6	75.0F	7.4	165	19	5.7	11	1.6	.0	90	8.7	4.4	4.6	.00	--	127	70	
1230	5050		89	23.9C	7.6	192	.95	.47	.48	.04	.00	1.48	.18	.12	.07		--	99	3	0.6
							49	24	25	2		80	10	6	4					
	80 4105.00				TUOLUMNE RIVER AT TUOLUMNE CITY															
03/02/71	5050	5.65	12.4	52.0F	7.2	185	16	3.9	21	1.2	.0	54	3.1	39	2.3	.00	--	126	56	
1620	5050		112	11.1C	7.7	231	.80	.32	.91	.03	.00	.89	.06	1.10	.04		--	113	12	1.2
							39	16	44	1		43	3	53	2					
07/07/71	5050	2.85	7.4	79.0F	8.2	560	45	13	73	5.8	.0	146	13	144	5.4	.10	--	421	167	
1155	5050		97	26.1C	7.9	744	2.25	1.07	3.18	.15	.00	2.39	.27	4.06	.09		--	371	47	2.5
							34	16	48	2		35	4	60	1					
	80 4150.00				TUOLUMNE RIVER AT HICKMAN BRIDGE NR WATERFORD															
03/02/71	5050	0.18	12.8	53.0F	7.4	175	11	3.8	13	1.0	.0	39	2.1	25	1.1	.00	--	96	43	
1415	5050		117	11.7C	7.6	157	.55	.31	.57	.03	.00	.64	.04	.71	.02		--	76	11	0.9
							38	21	39	2		45	3	50	1					
07/07/71	5050	0.60	11.7	77.0F	8.4	480	28	10	52	4.0	.0	106	4.1	99	.9	.00	--	313	111	
1010	5050		140	25.0C	8.2	501	1.40	.82	2.26	.10	.00	1.74	.09	2.79	.01		--	250	24	2.1
							31	18	49	2		38	2	60						
	80 5131.00				MERCED RIVER AT MILLIKEN BRIDGE															
03/03/71	5050		12.2	51.0F	7.2	168	13	3.5	11	1.0	.0	66	7.4	6.7	4.9	.00	--	86	47	
1040	5050		109	10.5C	7.7	150	.65	.29	.48	.03	.00	1.08	.15	.19	.08		--	80	7	0.7
							45	20	33	2		72	10	13	5					
07/07/71	5050		8.2	76.0F	7.4	160	15	4.2	16	1.7	.0	81	8.6	6.4	5.5	.00	--	116	54	
0940	5050		97	24.4C	7.6	184	.75	.35	.70	.04	.00	1.33	.18	.18	.09		--	97	12	0.9
							41	19	38	2		75	10	10	5					
	80 7020.00				SAN JOAQUIN RIVER NR VERNALIS															
10/14/70	5050	1.41	11.1	64 F	7.7	690	36	17	83	3.8	.0	146	54	108	7.6	.00	.2		160	14
1020	5000		106	18 C	7.9	713	1.80	1.40	3.61	.10	.00	2.39	1.12	3.05	.12		39.0	420	41	2.9
							26	20	52	1		36	17	46	2					
11/16/70	5050	1.24	9.6	55.0F	7.4	950	43	21	101	3.7	.0	169	86	122	6.7	.10	.2		194	8
0830	5000		90	12.8C	7.7	863	2.15	1.73	4.39	.09	.00	2.77	1.79	3.44	.11		38.0	505	56	3.2
							26	21	53	1		34	22	42	1					
12/16/70	5050	5.11	10.0	51 F	6.9		22	9.5	44	2.1	.0	82	45	50	3.8	.15	.0		94	15
0920	5000		94	11 C	7.2	413	1.10	.78	1.91	.05	.00	1.34	.94	1.41	.06		16.0	233	27	2.0
							29	20	50	1		36	25	38	2					
01/2[illegible]/71	5050	5.72	11.7	5[illegible] F	7.5	600	22	11	51	2.6	--	94	51	56	4.3	.30	.2		100	10
11[illegible]0	5000	5140	95	1[illegible] C	7.3	453	1.10	.90	2.22	.07		1.54	1.06	1.58	.07		14.0			2.2
							26	21	52	2		34	23	35	2					
02/1[illegible]/71	[illegible]	4.64	11.3	52.0F	7.5	475	20	9.7	46	1.8	.0	71	48	55	2.5	.10	.0		90	
09[illegible]	[illegible]		1[illegible]2	11.1C	7.2	409	1.00	.80	2.00	.05	.00	1.16	1.00	1.55	.04		12.0	230	32	2.1
							26	21	52	1		31	27	41	1					
03/0[illegible]/71	[illegible]	2.47	11.[illegible]	51.0F	7.6	640	36	13	71	1.6	.0	107	80	93	5.4	.20	--	362	143	
15[illegible]	[illegible]		116	1[illegible].5C	8.1	623	1.80	1.07	3.09	.05	.00	1.75	1.67	2.62	.09		--	353	56	2.6
							30	18	51	1		29	27	43	1					
[illegible]3/0[illegible]/71	[illegible]		13.[illegible]	51.1F			31	14	69	2.5	--	104	79	88	1.3	.40	.3	360	140	7
15[illegible]	[illegible]		118	1[illegible].6C	7.5	527	1.55	1.15	3.00	.06		1.70	1.64	2.48	.02		18.0			2.6
							27	20	52	1		27	26	40						
[illegible]4/1[illegible]/71	[illegible]		7.2	66.9F	7.6	700	38	18	76	3.2	--	127	83	110	1.6	.40	.1	419	170	20
12[illegible]	[illegible]		94	19.4C	7.4	697	1.90	1.48	3.31	.08		2.08	1.73	3.10	.03		20.0			2.5
							28	22	49	1		30	25	44						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB SAR
							MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
B0 7020.00	SAN JOAQUIN RIVER NR VERNALIS														CONTINUED					
05/13/71 0855	5050 5000			66.0F 18.9C	 7.4	 645	27 1.35 21	16 1.32 20	86 3.74 58	3.0 .08 1	--	124 2.03 31	130 2.71 42	92 2.59 40	1.0 .02	.30	.1 20.0	440	130	20 3.2
06/10/71 0845	5050 5000		10.0 107	66.0F 18.9C	8.2 7.0	340 513	26 1.30 23	12 .99 17	78 3.39 59	2.3 .06 1	.0 .00	107 1.75 32	51 1.06 19	94 2.65 48	.7 .01	.20	.4 15.0	335 332	110 27	30 3.2
07/08/71 0810	5050 5050		6.1 71	74.0F 23.3C	8.0 8.2	600 832	44 2.20 28	21 1.73 22	86 3.74 48	3.4 .09 1	.0 .00	155 2.54 32	74 1.54 20	131 3.69 47	6.6 .11 1	.20	-- --	476 442	198 70	 2.7
08/18/71 0745	5050 5050				 7.9	 806	43 2.15 28	21 1.73 22	86 3.74 48	3.9 .10 1	.0 .00	159 2.61 33	69 1.44 18	131 3.69 47	4.7 .08 1	.30	-- --	443 437	193 84	 2.7
09/14/71 1500	5050 5000		12.5 149	76.1F 24.5C	8.[illegible] 7.3	925 915	48 2.40 28	22 1.81 21	100 4.35 50	4.7 .12 1	.0 .00	188 3.08 35	77 1.60 18	150 4.23 47	.8 .01	.40	.2 21.0	520 516	210 57	30 3.0
B0 7040.00	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE																			
03/02/71 1600	5050 5050		12.6 113	51.0F 10.5C	7.6 8.1	775 776	39 1.95 27	18 1.48 20	89 3.87 53	1.9 .05 1	.0 .00	117 1.92 26	101 2.10 28	120 3.38 45	6.0 .10 1	.30	-- --	456 433	173 76	 3.0
07/07/71 1300	5050 5050		11.2 136	78.0F 25.5C	8.4 7.8	600 1070	54 2.69 25	28 2.30 22	128 5.57 52	4.2 .11 1	.0 .00	184 3.02 29	104 2.17 21	180 5.08 49	8.4 .14 1	.40	-- --	610 597	250 99	 3.5
B0 7080.00	SAN JOAQUIN RIVER NR GRAYSON AT LAIRD SLOUGH																			
01/07/71 1445	5050 5050		11.1 93	46.0F 7.8C	7.8 7.6	925 856	--	--	109 4.74 55	--	.0 .00	155 2.54 30	--	128 3.61 42	--	.60	-- --		205	
03/03/71 0940	5050 5050		12.0 106	50.0F 10.0C	8.0 8.3	1450 1440	67 3.34 23	38 3.13 22	178 7.74 54	3.5 .09 1	.0 .00	196 3.21 22	236 4.91 34	219 6.18 43	14.0 .23 2	1.00	-- --	882 853	325 163	 4.3
07/07/71 1135	5050 5050		8.3 100	77.0F 25.0C	8.2 7.5	800 1230	54 2.69 23	39 3.21 27	136 5.92 50	4.2 .11 1	.0 .00	206 3.38 28	153 3.19 26	192 5.41 44	11.0 .18 1	.50	-- --	726 691	295 126	 3.4
B0 7375.00	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE																			
02/17/71 1500	5050 5050	5.67	12.5 125	60.0F 15.5C	8.3 7.5	2300 2350	113 5.64 24	52 4.28 18	310 13.49 57	7.0 .18 1	.0 .00	200 3.28 14	458 9.54 40	386 10.89 45	16.0 .26 1	2.40	-- --	1480 1443	497 332	 6.1
03/03/71 1100	5050 5050	5.99	12.4 107	48.0F 8.9C	7.8 8.2	1800 1830	95 4.74 25	43 3.54 19	234 10.18 55	6.8 .17 1	.0 .00	181 2.97 16	344 7.16 39	280 7.90 43	21.0 .34 2	1.80	-- --	1140 1115	416 266	 5.0
07/07/71 0915	5050 5050		10.0 120	77.0F 25.0C	8.2 7.6	1200 1350	63 3.14 24	31 2.55 19	171 7.44 56	4.3 .11 1	.0 .00	172 2.82 22	164 3.41 26	239 6.74 52	5.7 .09 1	.60	-- --	814 763	288 144	 4.4
08/16/71 0640	5050 5050			70 F 21 C	7.6 8.3	1100 1175	52 2.59 23	28 2.30 20	143 6.22 55	4.2 .11 1	.0 .00	178 2.92 26	134 2.79 25	198 5.58 49	2.9 .05	.60	-- --	683 650	245 99	 4.0
B0 7710.00	SAN JOAQUIN RIVER NR MENDOTA																			
03/03/71 1325	5050 5050	2.95	13.0 119	53.0F 11.7C	7.8 8.1	670 648	37 1.85 30	16 1.32 21	67 2.91 47	2.3 .06 1	.0 .00	93 1.52 24	96 2.04 32	96 2.71 43	5.4 .09 1	.30	-- --	380 368	159 83	 2.3
07/06/71 1530	5050 5050	4.00	8.1 97	77.0F 25.0C	7.4 7.5	220 230	15 .75 33	7.0 .58 25	21 .91 40	1.7 .04 2	.0 .00	66 1.08 50	21 .44 21	21 .59 28	2.1 .03 1	.10	-- --	146 121	66 13	 1.1
B0 7885.00	SAN JOAQUIN RIVER BELOW FRIANT																			
03/02/71 1005	5050 5050	1.85	12.2 102	46.0F 7.8C	6.8 7.3	77 68	6.6 .33 52	.6 .05 8	5.2 .23 37	.7 .02 3	.0 .00	25 .41 64	2.1 .04 6	5.4 .15 23	2.5 .04 6	.00	-- --	36 35	19 2	 0.5
07/07/71 0700	5050 5050	2.40	10.4 93	51.0F 10.5C	6.8 6.8	50 44	4.4 .22 54	.1 .01 2	3.6 .16 39	.7 .02 5	.0 .00	16 .26 65	1.6 .03 8	2.7 .08 20	1.7 .03 8	.00	-- --	36 23	11 2	 0.5
B6 4200.00	CHOWCHILLA RIVER NR RAYMOND																			
03/02/71 1120	5050 5050		14.2 119	46.0F 7.3C	7.6 8.0	200 189	18 .90 49	3.6 .30 16	14 .61 33	1.5 .04 2	.0 .00	79 1.29 69	2.6 .05 3	19 .54 29	.0 .00	.00	-- --	122 98	60 5	 0.8
07/07/71 0830	5050 5050		9.8 100	72.0F 22.2C	7.4 7.4	300 307	25 1.25 44	3.9 .32 11	28 1.22 43	2.3 .06 2	.0 .00	85 1.39 49	1.0 .02 1	50 1.41 50	.1 .00	.00	-- --	204 152	80 9	 1.4
B6 7150.00	FRESNO RIVER NR DAULTON																			
03/02/71 1050	5050 5050		14.0 114	44.0F 6.7C	7.4 7.7	138 132	12 .50 50	1.7 .14 12	10 .44 36	1.2 .03 2	.0 .00	54 .89 69	3.0 .06 5	12 .34 26	.2 .00	.00	-- --	93 67	37 8	 0.7
07/07/71 0750	5050 5050		9.3 103	69.0F 20.5C	7.3 7.7	100 103	8.4 .42 45	.9 .07 8	8.9 .39 43	1.2 .03 3	.0 .00	31 .51 59	.8 .02 2	12 .34 39	.0 .00	.00	-- --	74 47	25 1	 0.8

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. / DEPTH	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB SAR
							MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE								MILLIGRAMS PER LITER				
C0 1140.00 KINGS RIVER BELOW PEOPLES WEIR																				
03/02/71	5050		11.1	48.0F	7.0	65	6.7	1.3	3.1	.6	.0	28	2.0	2.4	.7	.00	--	38	22	
0950	5050		96	8.9C	7.4	58	.33	.11	.13	.02	.00	.46	.04	.07	.01		--	31	1	0.3
							56	19	22	3		79	7	12	2					
07/06/71	5050	8.05	9.6	66.0F	7.0	46	4.5	.5	2.2	.7	.0	18	1.5	.0	.3	.00	--	34	13	
1320	5050		103	18.9C	7.0	40	.22	.04	.10	.02	.00	.30	.03	.00	.00		--	19	2	0.3
							58	11	26	5		91	9							
C0 2185.00 KAWEAH RIVER BELOW TERMINUS DAM																				
03/01/71	5002	2.52	12.0	46 F			13	1.3	4.3	1.2	.0	52	2.6	3.5	.0	.00	--	74	38	
1130	5050	257	101	8 C	7.8	100	.65	.11	.19	.03	.00	.85	.05	.10	.00		--	51	5	0.3
							66	11	19	3		85	5	10						
07/01/71	5002	4.74	11.5	60 F			6.5	.1	2.2	.9	.0	23	1.5	.0	.0	.00	--	37	17	
1015	5050	1813	115	16 C	7.5	45	.32	.01	.10	.02	.00	.38	.03	.00	.00		--	23	3	0.2
							71	2	22	4		93	7							
C0 3196.00 TULE RIVER BELOW SUCCESS DAM																				
03/01/71	5002	2.58	14.8	59.0F			31	5.0	13	2.2	3.0	128	5.9	8.6	1.0	.00	--	153	98	
1055	5050	20	146	15.0C	8.4	244	1.55	.41	.57	.06	.10	2.10	.12	.24	.02		--	133	12	0.6
							60	16	22	2	4	81	5	9	1					
07/12/71	5002	5.15	9.1	64 F			26	4.3	10	2.1	.0	116	1.5	4.7	.0	.10	--	124	83	
1325	5050	275	95	18 C	7.8	205	1.30	.35	.44	.05	.00	1.90	.03	.13	.00		--	106	13	0.5
							61	16	21	2		92	1	6						
C0 5150.00 KERN RIVER NR BAKERSFIELD																				
03/02/71	5633			48 F			9.0	2.8	14	1.9	.0	60	9.9	6.0	.8	.10	--	83	34	
0800	5050			9 C	7.7	138	.45	.23	.61	.05	.00	.98	.21	.17	.01		--	74	15	1.0
							34	17	46	4		72	15	12	1					
07/12/71	5633			69 F	7.4		6.0	1.9	9.6	1.2	.0	41	7.7	4.1	.0	.20	--	64	23	
0845	5050			21 C	7.8	104	.30	.16	.42	.03	.00	.67	.16	.12	.00		--	51	11	0.9
							33	18	46	3		71	17	13						
C0 7850.30 SANDY CREEK AT GARDNER FIELD ROAD																				
06/07/71	5121						14	5.8	134	13	.0	131	57	73	95.0	1.60	--	566	59	
1000	5050				7.1	802	.70	.48	5.83	.33	.00	2.15	1.19	2.06	1.53		--	458	49	7.6
							10	7	79	4		31	17	30	22					
C1 1140.00 KINGS RIVER BELOW PINE FLAT RESERVOIR																				
03/09/71	5002	4.85	11.5	44 F			4.3	.8	2.0	.9	.0	16	.0	1.0	.5	.00	--	24	14	
1010	5050	1875	100	9 C	7.2	40	.21	.07	.09	.02	.00	.26	.00	.03	.01		--	17	1	0.2
							54	18	23	5		87		10	3					
07/02/71	5002	6.97	9.3	54 F			3.7	.3	2.0	.6	.0	14	.8	.0	.0	.00	--	30	10	
1000	5050	5594	86	12 C	7.2	33	.18	.02	.09	.02	.00	.23	.02	.00	.00		--	14	2	0.3
							58	6	29	6		92	8							
C1 3250.30 RATTLESNAKE CREEK BELOW BURN																				
08/03/71	5005						1.6	.7	1.5	--	.0	9	--	2.7	--	--	--		7	2E
0730	5050				6.9	24	.08	.06	.07		.00	.15		.08			--		1	0.2
							33	25	29			62		33						
C2 1151.30 HORSE CREEK ABOVE HIGHWAY 198																				
01/21/71	5055			54.0F		360	46	19	30	4.0	.0	229	21	24	--	--	--	275	199	
	5802			12.2C	8.0	390	2.31	1.64	1.31	.10	.00	3.75	.45	.70			--	259	10	0.9
							43	31	24	2		96	12	18						
C2 1162.30 JIM GREY CREEK BELOW WELLS CREEK																				
01/21/71	5055			50 F		360	46	20	22	4.0	.0	250	11	21	--	--	--	299	204	
	5802			10 C	7.7	425	2.34	1.71	.96	.10	.00	4.10	.23	.60			--	249	3	0.7
							46	33	19	2		96	5	14						
C2 1165.30 WELLS CREEK NEAR HEADWATERS																				
01/21/71	5055			48 F		240	31	11	25	3.0	.0	165	11	21	--	--	--	204	127	
	5802			9 C	7.6	305	1.58	.94	1.09	.08	.00	2.70	.23	.60			--	185	9	1.0
							43	25	30	2		89	8	20						
C2 1168.30 JIM GREY CREEK NEAR HEADWATERS																				
01/21/71	5055					320	36	14	24	5.0	.0	207	7.4	21	--	--	--	254	150	
	5802				7.4	371	1.81	1.17	1.04	.13	.00	3.39	.15	.60			--	210	21	0.9
							44	28	25	3		91	4	16						
C2 2560.30 REDWOOD CREEK BELOW BUENA VISTA CREEK																				
11/06/70	5005						4.4	1.4	2.8	--	.0	20	--	1.4	--	--	--		17	4E
	5050				8.0	41	.22	.12	.12		.00	.33		.04			--		1	0.3
							54	29	29			80		10						
C2 2563.30 REDWOOD CREEK ABDVE BUENA VISTA CREEK																				
11/06/70	5005						5.2	1.2	3.2	--	.0	25	--	1.1	--	--	--		16	5E
	5050				7.7	49	.26	.10	.14		.00	.41		.03			--		3	0.3
							53	20	29			64		6						
C5 1350.00 KERN RIVER BELOW ISABELLA DAM																				
03/11/71	5002	6.22	11.0	46 F			8.5	2.7	14	1.8	.0	59	8.6	5.5	.3	.10	--	76	32	
1020	5050	390	92	8 C	7.5	132	.42	.22	.61	.05	.00	.97	.18	.16	.00		--	71	17	1.1
							32	17	47	4		74	14	12						
07/06/71	5002	7.42	5.8	66.0F			7.3	.8	9.4	1.2	.0	34	6.9	3.2	.0	.00	--	70	22	
1220	5050	788	73	18.9C	7.4	96	.36	.07	.41	.03	.00	.64	.14	.09	.00		--	48	11	0.9
							41	6	47	3		74	16	10						

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

C7 7147.50 CANTUA CREEK ABOVE HIGHWAY 33

DATE TIME	SAMPLER LAB	G.H. CFS	DO SAT	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	TURB SAR
05/27/71	5050						3.2	180	208	--	45	470	--	50	.1	1.60	--		744	
0915	5050				9.0	1440	.16	14.81	9.05		1.50	7.70		1.41	.00		--		289	3.3
							1	78	48		8	41		7						

TABLE D-3

TRACE MINERAL ANALYSES OF SURFACE WATER

Table D-3 presents trace mineral analyses performed by the Department of Water Resources' Laboratory or U. S. Geological Survey's Laboratory. The following are definitions of abbreviations and chemical symbols used in this table.

Abbreviations

LAB	Laboratory
	5000 U. S. Geological Survey 5050 Department of Water Resources
M	Milligrams per liter
U	Micrograms per liter
Y	Less than the amount indicated

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	HG	Mercury
BA	Barium	LI	Lithium
BE	Beryllium	MN	Manganese
BI	Bismuth	MO	Molybdenum
BR	Bromine	NI	Nickel
CD	Cadmium	PB	Lead
CO	Cobalt	SE	Selenium
CR	Chromium	SR	Strontium
CU	Copper	TI	Titanium
FE	Iron	V	Vanadium
GA	Gallium	ZN	Zinc

TABLE D-[illegible]

TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAB	AL GE	AS HG	BA LI	BE MN	BI MO	BR NI	CD PB	CO SE	CR SR	CU TI	FE V	GA ZN
B00470.00	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.01M	-- --	-- --	-- --	-- --
B00770.00	71-4-28	5050	-- --	0.00M 0.0U	0.1M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B03115.00	71-3-2	5000	69U 0.3UY	-- --	-- --	0.6UY 1.4UY	0.3UY 0.3UY	-- 0.8U	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 3.7U	[illegible].1U [illegible].7U	5.7UY 5.7UY
	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-7-7	5050	-- --	0.00M 0.0U	0.1M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.01M	-- --	-- --	-- --	-- --
B04105.00	71-3-2	5000	2.9U 0.3UY	-- --	-- --	0.6UY 1.4UY	0.3UY 0.3UY	-- 0.3UY	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	4.9U 2.1U	5.7UY 5.7UY
	71-5-11	5050	-- --	0.02M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-7-7	5050	-- --	0.00M 0.0U	0.2M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B04150.00	71-5-12	5050	-- --	0.00M 0.4U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B05131.00	71-3-3	5000	11U 0.3UY	-- --	-- --	0.6UY 1.4UY	0.3UY 1.0U	-- 0.6U	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	8.3U 2.7U	5.7UY 5.7UY
	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-7-7	5050	-- --	0.00M 0.0U	0.2M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B07020.00	71-3-2	5000	1.6U 0.3UY	-- --	-- --	0.6UY 1.4UY	0.3UY 1.6U	-- 0.4U	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	3.1U 3.1U	5.7UY 5.7UY
	71-4-15	5000	-- --	-- --	-- 8U	-- --	-- --	-- --	-- --	-- --	-- 410U	-- --	80U --	-- --
	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-5-13	5000	-- --	-- --	-- 13U	-- --	-- --	-- --	-- --	-- --	-- 390U	-- --	40U --	-- --
	71-6-10	5000	6.5U 0.5UY	-- --	-- 7U	1.0UY 11U	0.5UY 5.5U	-- 0.8U	2.5UY 2.5UY	2.5UY --	-- 770U	2.5UY 1.0UY	40U 4.0U	10UY 10UY
	71-7-8	5050	-- --	0.00M 0.1U	0.3M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-9-14	5000	-- --	-- --	-- 2U	-- --	-- --	-- --	-- --	-- --	-- 760U	-- --	20U --	-- --
B07040.00	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B07080.00	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B07375.00	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-7-7	5050	-- --	0.00M 0.0U	0.1M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B07710.00	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B07885.00	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B31158.10	71-5-12	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B41100.00	71-5-11	5050	--	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B51200.00	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B64200.00	71-4-28	5050	-- --	0.00M 0.0U	0.1M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
B67150.00	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
C00915.30	71-5-11	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.01M	-- --	-- --	-- --	-- --
	71-7-6	5050	-- --	0.00M 0.0U	0.1M --	-- --	-- --	-- --	0.00M 0.01M	-- 0.00M	-- --	-- --	-- --	-- --
C01140.00	71-3-2	5000	2.8U 0.3UY	-- --	-- --	0.6UY 1.4UY	0.3UY 0.3UY	-- 0.7U	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	9.1U 0.6U	5.7UY 5.7UY
	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-7-6	5050	-- --	0.00M 0.0U	0.2M --	-- --	-- --	-- --	0.00M 0.01M	-- 0.00M	-- --	-- --	-- --	-- --
C02185.00	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --

TABLE D-3 (Continued)

TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAB	AL GE	AS HG	BA LI	BE MN	BI MO	BR NI	CD PB	CO SE	CR SR	CU TI	FE V	GA ZN
C03190.00	71-3-1	5000	2.3U 0.3UY	-- --	-- --	0.7UY 1.7UY	0.3UY 2.3U	-- 1.0U	1.7UY 1.7UY	1.7UY --	1.7UY --	1.7UY 0.7UY	4.0U 4.3U	6.7UY --
	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-7-12	5050	-- --	0.00M 0.5U	0.2M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
C04452.30	71-5-11	5050	-- --	0.00M 0.0U	0.00M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
C05150.00	71-3-2	5000	9.1U 0.3UY	-- --	-- --	0.6UY 1.4UY	0.3UY 6.3U	-- 0.5U	1.4UY 1.4UY	1.4UY --	1.4UY --	1.4UY 0.6UY	12U 1.7U	5.7UY 5.7UY
	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
	71-7	5050	-- --	0.00M 0.9U	0.1M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
C11140.00	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
C12420.00	71-8-17	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
C51350.00	71-4-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- --	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --
C77047.30	71-5-28	5050	-- --	0.00M 0.0U	0.0M --	-- --	-- --	-- -	0.00M 0.00M	-- 0.00M	-- --	-- --	-- --	-- --

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-4 presents analyses which do not appear on Tables D-2 and D-3. The following are definitions of abbreviations used in this table.

Abbreviations

BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
NH_3+N	Ammonia plus Organic Nitrogen (as N)
POT	Total and Organic Phosphates (as P)
TURB	Turbidity
LAB	Laboratory
	5000 U. S. Geological Survey 5050 Department of Water Resources

TABLE D-4

MISCELLANEOUS CONSTITUENTS OF SURFACE WATER
(Milligrams per liter)

STATION NO.	DATE	LAB	BOD	COD	NH_3+N	POT	TURB
B07020.00	70-10-14	5000					14
	70-10-14	5050	4.8	12			
	70-11-18	5000					8
	70-11-18	5050	2.4	5			
	70-12-16	5000					15
	71-1-20	5000					9.7
	71-2-18	5050	2.7	0			
	71-3-2	5000				0.12	7
	71-3-17	5050	2.8	6			
	71-4-15	5050	4.2	14			
	71-4-15	5000				0.32	20
	71-5-13	5000				0.32	20
	71-5-13	5050	4.8	13			
	71-6-10	5050	4.6	17			
	71-6-10	5000				0.25	30
	71-7-8	5050		20			
	71-8-18	5050	6.0	10			
	71-9-14	5050	9.3	25			
	71-9-14	5000				0.30	30
C21210.30	71-9-20	5050			0.10		
C21240.30	71-9-20	5050			0.10		
C22010.30	71-9-20	5050			0.10		
C22560.30	70-11-6	5050					4
C22563.30	70-11-6	5050					5
C23010.30	71-9-20	5050			0.10		
C23400.30	71-9-20	5050			0.00		
C24020.30	71-9-20	5050			0.10		

APPENDIX E

GROUND WATER QUALITY

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1971 water year (October 1, 1970 through September 30, 1971). These data were obtained from analyses of water samples from approximately 176 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 13th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 125. A 40-acre tract may contain a well that has not been assigned a state number or may have a well that is of a temporary nature. These are numbered in the 80 series; i.e. 15S/22E-27K80M. A spring when sampled is given an added letter designation; i.e. 18S/28E-14E01SM.

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analysis of ground water by various agencies and laboratories cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation.

5000	U. S. Geological Survey
5006	U. S. Fish and Wildlife
5050	Department of Water Resources
5055	Water Pollution and Quality Control Boards
5060	Department of Public Health
5119	Kern County Health Department
5121	Kern County Water Agency
5129	Kings County Water District
5214	City of Visalia
5217	City of Chowchilla
5601	Stone Corral Irrigation District
5703	Valley Waste Disposal Company
5802	Twining Laboratory
5803	Hornkohl Laboratory
5817	Biological Testing and Research Laboratory

Chemical Symbols

B	Boron	K	Potassium
Ca	Calcium	Mg	Magnesium
Cl	Chloride	Na	Sodium
CO_3	Carbonate	NO_3	Nitrate
F	Fluoride	SIO_2	Silica
HCO_3	Bicarbonate	SO_4	Sulfate

Abbreviations

EC	Specific Electrical Conductance	TDS	Total Dissolved Solids
FLD	Field Determination	TEMP	Water Temperature at Time of Field Sampling
LAB	Laboratory		F Fahrenheit C Celsius
NCH	Non-Carbonate Hardness		
SAR	Sodium Adsorption Ratio	TIME	Pacific Standard Time on a 24-Hour Clock
SUM	Sum of Mineral Constituents	PH	Measure of Acidity or Alkalinity
TH	Total Hardness		

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB		TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER B	F SIO2	TDS SUM	TH NCH	SAR
		01S/10E-14L01	M																
04/02/71	5050		66.0F	7.2	330	22	14	19	--	.0	137	--	12	14.0	.00	--		115	
1135	5050		18.9C	7.3	322	1.10	1.20	.83		.00	2.25		.34	.23		--		3	0.8
						34	37	26			70		11	7					
		02S/10E-11N01	M																
04/02/71	5050		62.0F	7.0	170	12	8.8	7.0	--	.0	81	--	2.8	6.0	.00	--		66	
0840	5050		16.7C	7.2	162	.60	.72	.30		.00	1.33		.08	.10		--		1	0.4
						37	44	19			82		5	6					
		02S/12E-32P01	M																
04/02/71	5050		63.0F	7.0	475	24	10	55	--	.0	141	--	78	4.0	.10	--		103	
0920	5050		17.2C	7.4	489	1.20	.86	2.39		.00	2.31		2.20	.06		--		13	2.4
						25	18	49			47		45	1					
		03S/08E-29K01	M																
04/01/71	5050		63.0F	7.4	625	51	20	60	--	.0	330	--	22	28.0	.00	--		212	
1320	5050		17.2C	7.6	634	2.54	1.69	2.61		.00	5.41		.62	.45		--		59	1.8
						40	27	41			85		10	7					
		03S/09E-23E01	M																
04/01/71	5050		62.0F	7.4	450	46	14	29	--	.0	234	--	6.5	18.0	.00	--		175	
0945	5050		16.7C	7.6	451	2.30	1.20	1.26		.00	3.84		.18	.29		--		17	1.0
						51	27	28			85		4	6					
		03S/10E-12L01	M																
04/06/71	5050		63.0F	7.4		37	13	28	--	.0	233	--	10	7.9	.00	--		149	
1100	5050		17.2C	7.6	399	1.85	1.13	1.22		.00	3.82		.28	.13		--		42	1.0
						46	28	31			96		7	3					
		04S/08E-26M01	M																
04/07/71	5050		62.0F	7.4		65	14	129	--	.0	351	--	128	30.0	.00	--		221	
1005	5050		16.7C	7.5	1020	3.24	1.18	5.61		.00	5.75		3.61	.48		--		67	3.8
						32	12	55			56		35	5					
		04S/09E-21A01	M																
04/06/71	5050		61.0F	7.0		53	16	67	--	.0	278	--	61	23.0	.00	--		201	
1715	5050		16.1C	7.1	693	2.64	1.37	2.91		.00	4.56		1.72	.37		--		26	2.1
						38	20	42			66		25	5					
		04S/12E-29J01	M																
04/02/71	5050		68.0F	7.6	200	13	5.7	17	--	.0	89	--	5.7	12.0	.00	--		56	
1400	5050		20.0C	7.8	187	.65	.47	.74		.00	1.46		.16	.19		--		17	1.0
						35	25	40			78		9	10					
		05S/09E-18D01	M																
04/01/71	5050		62.0F	6.8		78	20	183	--	.0	408	--	245	16.0	.00	--		279	
0920	5050		16.7C	7.2	1430	3.89	1.69	7.96		.00	6.69		6.91	.26		--		56	4.8
						27	12	56			47		48	2					
		05S/11E-06D01	M																
04/07/71	5050		66.0F	7.3		33	13	29	--	.0	171	--	17	31.0	.00	--		137	
1400	5050		18.9C	7.7	398	1.65	1.09	1.26		.00	2.80		.48	.50		--		3	1.1
						41	27	32			70		12	13					
		05S/11E-22B01	M																
04/07/71	5050		69.0F	7.6		15	6.4	30	--	.0	82	--	41	8.8	.00	--		64	
1510	5050		20.5C	7.7	289	.75	.53	1.31		.00	1.34		1.16	.14		--		3	1.6
						26	18	45			46		40	5					
		05S/12E-32D01	M																
04/02/71	5050		68.0F	7.9	170	14	3.7	15	--	.0	71	--	13	12.0	.00	--		50	
1045	5050		20.0C	8.2	190	.70	.30	.65		.00	1.16		.37	.19		--		8	0.9
						37	16	34			61		19	10					
		06S/10E-07D01	M																
04/01/71	5050		68.0F	7.4	1700	110	20	248	--	.0	269	--	476	26.0	.00	--		360	
1320	5050		20.0C	7.5	2010	5.49	1.70	10.79		.00	4.41		13.42	.42		--		139	5.7
						27	8	54			22		67	2					
		06S/10E-24L01	M																
04/01/71	5050		69.0F	7.3		22	6.1	44	--	.0	147	--	9.0	10.0	.00	--		80	
1430	5050		20.5C	7.5	372	1.10	.50	1.91		.00	2.41		.25	.16		--		41	2.1
						30	13	51			65		7	4					
		06S/12E-21N01	M																
04/02/71	5050		66.0F	7.1	240	22	8.8	20	--	.0	124	--	4.6	16.0	.00	--		91	
1110	5050		18.9C	7.2	281	1.10	.72	.87		.00	2.03		.13	.26		--		11	0.9
						39	26	31			72		5	9					
		07S/11E-21P01	M																
04/06/71	5050		65.0F	7.3	850	66	17	108	--	.0	398	--	78	13.0	.00	--		236	
1400	5050		18.3C	7.5	914	3.29	1.42	4.70		.00	6.52		2.20	.21		--		91	3.1
						36	16	51			71		24	2					
		07S/15E-29M01	M																
04/07/71	5050		67.0F	7.3	500	48	21	40	--	.0	235	--	13	24.0	.00	--		209	
0945	5050		19.4C	7.5	565	2.40	1.78	1.74		.00	3.85		.37	.39		--		17	1.2
						42	32	31			68		7	7					

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR
					MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER / MILLIEQUIVALENTS PER LITER / PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
07S/16E-29J01 M																		
04/01/71	5050	65.0F	7.2	580	52	32	53	--	.0	308	--	43	23.0	.00	--		264	
1005	5050	18.3C	7.4	698	2.59	2.68	2.31		.00	5.05		1.21	.37		--		11	1.4
					37	38	33			72		17	5					
08S/12E-12Q02 M																		
04/08/71	5050	66.0F	7.3	560	56	17	42	--	.0	281	--	13	6.3	.00	--		212	
0945	5050	18.9C	7.3	566	2.79	1.44	1.83		.00	4.61		.37	.10		--		19	1.3
					49	25	32			81		7	2					
08S/13E-19J01 M																		
04/07/71	5050	66.0F	7.3	600	64	30	36	--	.0	392	--	14	7.8	.00	--		286	
1525	5050	18.9C	7.6	641	3.19	2.52	1.57		.00	6.42		.39	.13		--		36	0.9
					50	39	24			100		6	2					
08S/16E-28P01 M																		
04/01/71	5050	71.0F	7.2	295	18	7.8	35	--	.0	141	--	13	6.6	.00	--		77	
1400	5050	21.6C	7.3	310	.90	.64	1.52		.00	2.31		.37	.11		--		39	1.7
					29	21	49			75		12	4					
09S/13E-17F01 M																		
04/08/71	5050	72.0F	7.6	1250	78	32	84	--	.0	190	--	240	10.0	.00	--		327	
1325	5050	22.2C	7.8	1110	3.89	2.64	3.65		.00	3.11		6.77	.16		--		171	2.0
					35	24	33			28		61	1					
09S/14E-12R01 M																		
04/02/71	5050	72.0F	7.4	240	16	5.4	24	--	.0	98	--	23	5.5	.00	--		62	
1245	5050	22.2C	7.6	255	.80	.44	1.04		.00	1.61		.65	.09		--		19	1.3
					31	17	41			63		25	4					
09S/15E-02H01 M																		
04/01/71	5050	71.0F	7.2	210	18	7.5	18	--	.0	87	--	14	22.0	.00	--		76	
1520	5050	21.6C	7.5	241	.90	.62	.78		.00	1.43		.39	.35		--		5	0.9
					37	26	32			59		16	15					
09S/15E-25J03 M																		
08/30/71	5217				16	4.6	23	--	.0	79	8.6	24	1.3	--	--	196	61	
	5802		7.3		.84	.38	1.00		.00	1.29	.18	.70	.02		37.2	155	4	1.3
										59	8	32	1					
09S/16E-30B02 M																		
08/30/71	5217				13	5.5	33	--	.0	95	5.7	31	.9	--	--	236	57	
	5802		7.1		.69	.45	1.44		.00	1.56	.12	.90	.01		54.4	192	21	1.9
										60	5	35						
09S/16E-30B03 M																		
08/30/71	5217				15	5.5	19	--	.0	76	6.2	21	1.8	--	--	204	61	
	5802		7.7		.77	.45	.83		.00	1.25	.13	.60	.03		54.8	161	2	1.1
										62	6	30	1					
09S/16E-31F01 M																		
08/30/71	5217				81	34	107	--	.0	470	69	74	17.3	--	--	694	344	
	5802		7.2		4.07	2.80	4.65		.00	7.70	1.44	2.10	.28		20.8	635	42	2.5
										67	13	18	2					
10S/13E-10H01 M																		
03/31/71	5050	64.0F	7.2	1400	171	25	55	--	.0	183	--	371	12.0	.00	--		532	
1020	5050	17.8C	7.4	1440	8.53	2.10	2.39		.00	3.00		10.46	.19		--		382	1.0
					59	15	17			21		73	1					
12S/19E-13A01 M																		
04/12/71	5050	74.0F	6.8	170	13	6.2	14	4.7	.0	50	4.6	13	30.0	.00	--	177	58	
1430	5050	23.3C	7.3	197	.65	.51	.61	.12	.00	.82	.10	.37	.48		--	110	17	0.8
					34	27	32	6		46	6	21	27					
15S/22E-27K80 M																		
08/09/71	5050	67.4F	6.6	160	13	6.0	6.0	1.0	.0	74	10	4.0	.5	.00	.2	81	57	
1330	5050	19.6C	6.6	149	.65	.49	.26	.03	.00	1.21	.21	.11	.01		--	77	4	0.3
					45	34	18	2		79	14	7	1					
15S/22E-27L80 M																		
08/09/71	5050	67.5F	6.3		51	18	27	2.0	.0	258	31	5.0	30.0	.03	.2	316	201	
1100	5050	19.7C	7.7	491	2.54	1.48	1.17	.05	.00	4.23	.65	.14	.48		--	291	11	0.8
					48	28	22	1		77	12	3	9					
15S/22E-27L81 M																		
08/09/71	5050	74 F	7.4	165	11	5.0	13	2.0	.0	73	11	3.0	2.0	.00	.3	84	46	
1400	5050	23 C	7.1	147	.55	.41	.57	.05	.00	1.20	.23	.08	.03		--	83	12	0.6
					35	26	36	3		78	15	5	2					
17S/21E-36H01 M																		
12/09/70	5129	63.0F		228	33	4.0	9.0	--	.0	126	--	5.6	.3	.00	--		99	
	5050	17.2C	8.3	223	1.65	.33	.39		.00	2.07		.16	.00		--		5	0.4
					74	15	17			93		7						
17S/22E-33P01 M																		
11/06/70	5129	66.0F		178	25	4.8	6.4	--	.0	97	--	2.6	3.9	.00	--		82	
	5050	18.9C	8.3	174	1.25	.39	.28		.00	1.59		.07	.06		--		3	0.3
					72	22	16			91		4	3					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR
	17S/25E-12H01	M																
04/29/71	5601				45	20	21	--	.0	174	21	49	--	.31	--	368	200	
	5802		7.2		2.26	1.70	.91		.00	2.85	.44	1.40			--	243	56	0.6
	18S/20E-22J01	M																
11/08/70	5129	66.0F		160	16	3.2	9.8	--	.0	59	--	6.8	6.5	.00	--		53	
	5050	18.9C	7.7	156	.80	.26	.43		.00	.97		.19	.10		--		5	0.6
					51	17	28			62		12	6					
	18S/21E-06K01	M																
02/25/71	5129				55	15	102	--	.0	363	--	33	6.2	.10	--		199	
	5050		8.2	777	2.74	1.23	4.44		.00	6.28		.93	.10		--		116	3.1
					35	16	57			81		12	1					
	18S/21E-31H01	M																
02/18/71	5129				.7	.5	54	--	.0	134	--	1.6	.2	.00	--		4	
	5050		8.3	221	.03	.04	2.35		.00	2.20		.05	.00		--		107	12.0
					1	2	106			100		2						
	18S/22E-19H02	M																
11/08/70	5129	68.0F		635	52	15	75	--	.0	355	--	8.1	5.8	.10	--		193	
	5050	20.0C	7.9	596	2.59	1.26	3.26		.00	5.82		.23	.09		--		99	2.4
					43	21	55			98		4	2					
	18S/22E-26A01	M																
02/25/71	5129				4.5	.4	49	--	.0	109	--	16	.0	.00	--		13	
	5050		8.1	240	.22	.03	2.13		.00	1.79		.45	.00		--		77	5.9
					9	1	89			75		19						
	18S/24E-31E01	M																
12/01/70	5214				--	--	26	--	--	--	--	24	9.7	.03	--	116		
	5817		7.9				1.13					.70	.16		--			
03/01/71	5214				--	--	28	--	--	--	--	12	2.7	.02	--	124		
	5817		8.0				1.22					.34	.04		--			
	18S/28E-14E01S	M																
01/21/71	5055	53 F		300	31	14	23	4.0	.0	198	9.9	10	30.8	--	--	237	138	
	5802	12 C	7.6	330	1.58	1.17	1.00	.10	.00	3.25	.21	.30	.50		--	222	25	0.9
					41	30	26	3		76	5	7	12					
	18S/28E-26L01	M																
01/21/71	5055	60 F		290	27	10	28	5.0	.0	165	8.6	17	49.3	--	--	212	111	
	5802	16 C	6.9	319	1.36	.86	1.22	.13	.00	2.70	.18	.50	.80		--	227	24	1.2
					38	24	34	4		65	4	12	19					
	18S/28E-34F01	M																
01/21/71	5055	62 F			43	14	19	4.0	.0	211	7.4	21	24.6	--	--	256	169	
	5802	17 C	7.0	372	2.19	1.17	.83	.10	.00	3.46	.15	.60	.40		--	238	5	0.6
					51	27	19	2		75	3	13	9					
	19S/21E-29M01	M																
03/22/71	5129				1.7	.4	180	--	.0	440	--	26	1.5	1.40	--		6	
	5050		8.3	740	.08	.03	7.83		.00	7.21		.73	.02		--		355	32.3
					1		106			97		10						
	19S/22E-01N02	M																
12/09/70	5129	58.0F		304	19	1.8	44	--	.0	113	--	11	.4	.00	--		55	
	5050	14.4C	8.3	299	.95	.15	1.91		.00	1.85		.31	.01		--		38	2.6
					32	5	64			62		10						
	19S/23E-01H01	M																
12/01/71	5214				--	--	37	--	--	--	--	28	10.2	.05	--	64		
	5817		9.0				1.61					.80	.16		--			
	19S/23E-02N01	M																
12/01/70	5214				--	--	42	--	--	--	--	14	18.2	.03	--	176		
	5817		7.7				1.83					.39	.29		--			
03/01/71	5214				--	--	39	--	--	--	--	18	21.3	.04	--	94		
	5817		7.5				1.70					.51	.34		--			
	19S/24E-04N01	M																
12/01/70	5214				--	--	29	--	--	--	--	26	8.4	.03	--	80		
	5817		8.4				1.26					.73	.14		--			
03/01/71	5214				--	--	30	--	--	--	--	16	10.2	.04	--	72		
	5817		8.5				1.31					.45	.16		--			
	19S/24E-06N01	M																
12/01/70	5214				--	--	29	--	--	--	--	14	.0	.04	--			
	5817		9.4				1.26					.39	.00		--			
03/01/71	5214				--	--	29	--	--	--	--	6.0	4.3	.02	--	48		
	5817		9.3				1.28					.17	.07		--			

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR
	20S/20E-01G01 M																	
12/14/70	5129	64.0F		1261	62	29	172	--	.0	545	--	88	49.0	.30	--		275	
	5050	17.8C	7.6	1130	3.09	2.40	7.48		.00	8.93		2.48	.79		--		172	4.5
					27	21	66			79		22	7					
	20S/21E-03A01 M																	
12/09/70	5129	66.0F		623	44	17	80	--	.0	326	--	26	1.0	.30	--		180	
	5050	18.9C	8.3	603	2.20	1.40	3.48		.00	5.34		.73	.02		--		87	2.6
					36	23	58			89		12						
	20S/22E-20A02 M																	
12/14/70	5129	66.0F		587	18	2.4	109	--	.0	274	--	37	.6	.30	--		55	
	5050	18.9C	8.1	572	.90	.20	4.74		.00	4.49		1.04	.01		--		170	6.4
					16	3	83			78		18						
	24S/19E-02R01 M																	
04/14/71	5050				113	125	1160	--	.0	285	--	2010	6.8	--	--		800	
	5050		8.0	7050	5.64	10.35	50.46		.00	4.67		56.68	.11		--		566	17.8
					8	15	72			7		80						
	24S/19E-25E01 M																	
04/14/71	5050				284	355	4850	--	.0	622	--	9010	.0	--	--		2170	
	5050		6.7	24300	14.17	29.20	210.98		.00	10.19		254.08	.00		--		1660	45.3
					6	12	87			4		105						
	24S/22E-17080 M																	
06/07/71	5121				13	1.9	111	1.6	.0	211	10	60	26.0	.30	--	360	41	
	5050		8.3	584	.65	.16	4.83	.04	.00	3.46	.21	1.69	.42		--	328	133	7.6
					11	3	85	1		60	4	29	7					
	25S/20E-16F02 M																	
04/13/71	5050				169	58	492	--	.0	136	--	581	15.0	--	--		662	
	5050		7.8	3520	8.43	4.79	21.40		.00	2.23		16.38	.24		--		550	8.3
					24	14	61			6		47	1					
	25S/22E-10Q01 M																	
02/12/71	5006				2.4	4.9	51	.5	11	84	18	21	.0	--	.9	152	26	
	5803		8.8	282	.12	.40	2.22	.01	.38	1.38	.38	.60	.00		--	151	62	4.3
					4	15	81		14	50	14	22						
	25S/22E-27J01 M																	
03/10/71	5006				1.2	.5	46	.1	33	20	9.6	17	--	--	1.2	119	5	
	5803		9.5	198	.06	.04	2.04	.00	1.12	.33	.20	.50			--	119	68	9.1
					3	2	95		57	17	10	25						
	25S/23E-07A01 M																	
04/23/71	5121				20	1.7	93	--	.0	78	--	56	.2	.10	--		57	
0930	5050		7.9	570	1.00	.14	4.05		.00	1.28		1.58	.00		--		7	5.4
					18	2	71			22		28						
	25S/23E-07G01 M																	
04/29/71	5121				8.1	2.9	156	--	12	86	--	67	.1	.40	--		32	
1100	5050		8.7	816	.40	.24	6.79		.40	1.41		1.89	.00		--		59	12.0
					5	3	83		5	17		23						
	25S/23E-08C01 M																	
04/23/71	5121				1.7	.7	34	--	.0	64	--	7.1	1.0	.00	--		7	
0900	5050		8.2	168	.08	.06	1.48		.00	1.05		.20	.02		--		46	5.5
					5	4	88			62		12	1					
	26S/21E-17D01 M																	
04/13/71	5050			22000	1300	849	3430	--	.0	153	--	7730	358	--	--		6740	
	5050		7.2	23500	64.87	69.82	149.21		.00	2.51		217.99	5.77		--		6614	18.2
					28	30	63			1		93	2					
	26S/21E-27N02 M																	
04/13/71	5050				386	127	874	--	.0	144	--	1130	5.0	--	--		1490	
	5050		7.5	6230	19.26	10.52	38.02		.00	2.36		31.87	.08		--		1372	9.9
					31	17	61			4		51						
	26S/23E-13H01 M																	
04/23/71	5121				4.0	1.0	32	--	12	33	--	12	3.1	.00	--		14	
1240	5050		9.0	179	.20	.08	1.39		.40	.54		.34	.05		--		33	3.7
					11	4	78		22	30		19	3					
	26S/23E-16F01 M																	
04/23/71	5121				1.8	1.1	33	--	7.0	44	--	8.6	3.5	.00	--		9	
1045	5050		8.9	177	.09	.09	1.44		.23	.72		.24	.06		--		39	4.8
					5	5	81		13	41		14	3					
	26S/23E-25H02 M																	
04/23/71	5121				1.6	1.2	30	--	16	33	--	5.7	3.2	.00	--		9	
1300	5050		9.3	167	.08	.10	1.31		.53	.54		.16	.05		--		45	4.4
					5	6	78		32	32		10	3					
	26S/23E-33N01 M																	
03/05/71	5060	79.0F			.8	2.4	41	--	18	44	--	6.2	.7	--	.5		12	
	5050	26.1C	9.6	180	.04	.20	1.78		.60	.72		.17	.01		--		54	5.2
					2	11	99		33	40		9	1					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR
					MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE								MILLIGRAMS PER LITER				
	26S/23E-33N02 M																	
03/05/71	5060	79.0F			1.0	.6	40	--	28	24	--	5.6	.2	--	.4		5	
	5050	26.1C	9.9	184	.05	.05	1.74		.93	.39		.16	.00		--		61	7.8
					3	3	95		51	21		9						
	26S/25E-27B01 M																	
04/29/71	5121				20	2.2	26	--	.0	101	--	10	6.7	.00	--		59	
1025	5050		8.1	235	1.00	.18	1.13		.00	1.66		.28	.11		--		24	1.5
					43	8	48			71		12	5					
	27S/21E-24P02 M																	
04/07/71	5050			3000	150	26	545	--	.0	157	--	293	2.4	--	--		485	
	5050		7.8	3270	7.49	2.20	23.71		.00	2.57		8.26	.04		--		356	10.8
					23	7	73			8		25						
	27S/23E-31P01 M																	
04/26/71	5121				48	3.9	355	--	.0	53	--	516	8.0	.50	--		136	
1155	5050		7.8	2080	2.40	.32	15.44		.00	.87		14.55	.13		--		93	13.3
					12	2	74			4		70	1					
	27S/24E-11F01 M																	
04/26/71	5121				22	2.2	26	--	.0	88	--	10	11.0	.00	--		64	
1400	5050		8.1	237	1.10	.18	1.13		.00	1.44		.28	.18		--		8	1.4
					46	8	48			61		12	8					
	27S/24E-14F01 M																	
04/26/71	5121				32	1.2	27	--	.0	81	--	22	18.0	.00	--		85	
1415	5050		7.4	317	1.60	.10	1.17		.00	1.33		.62	.29		--		19	1.3
					50	3	37			42		20	9					
	27S/24E-35C01 M																	
04/26/71	5121				83	1.4	48	--	.0	41	--	106	48.0	.00	--		213	
1430	5050		7.2	715	4.14	.12	2.09		.00	.67		2.99	.77		--		180	1.4
					58	2	29			9		42	11					
	27S/26E-08Q01 M																	
08/12/71	5121	67 F			48	5.8	28	--	.0	117	--	58	5.1	--	--		144	
1140	5050	19 C	8.0	410	2.40	.48	1.22		.00	1.92		1.64	.08		--		46	1.0
					59	12	30			47		40	2					
	27S/26E-16Q01 M																	
04/02/71	5121	67.0F			76	13	39	2.3	.0	123	31	123	21.0	.00	--	431	242	
0925	5050	19.4C	8.3	695	3.79	1.07	1.70	.06	.00	2.02	.65	3.47	.34		--	366	142	1.1
					57	16	26	1		31	10	54	5					
08/12/71	5121	69 F			78	11	34	--	.0	124	--	123	21.0	--	--		241	
1130	5050	21 C	8.0	663	3.89	.90	1.48		.00	2.03		3.47	.34		--		136	1.0
					59	14	22			31		52	5					
	27S/26E-17D01 M																	
03/19/71	5121	68.0F			88	18	32	2.8	.0	128	65	101	49.0	.00	--	488	292	
0930	5050	20.0C	8.3	742	4.39	1.48	1.39	.07	.00	2.10	1.35	2.85	.79		--	419	189	0.8
					60	20	19	1		30	19	40	11					
	27S/26E-22Q01 M																	
06/18/71	5703				17	6.3	44	1.8	7.2	67	14	59	--	.05	.1	205	70	
	5803		8.3	323	.88	.52	1.92	.05	.24	1.10	.30	1.68			19.4	203	3	2.3
					26	15	57	1	7	34	9	52						
	27S/26E-27A01 M																	
06/02/71	5703				173	30	73	4.6	.0	159	38	388	--	.15	.1	815	558	
	5803		7.8	1333	8.64	2.51	3.20	.12	.00	2.61	.80	10.96			26.9	814	427	1.4
					60	17	22	1		20	6	82						
	27S/26E-27R01 M																	
05/11/71	5703				300	51	50	6.2	.0	199	146	533	--	--	.1	1211	960	
	5803		7.2	2083	14.97	4.21	2.20	.16	.00	3.26	3.10	15.04			22.0	1210	797	0.7
					69	20	10	1		16	15	72						
	27S/26E-32A01 M																	
03/09/71	5121	74 F			32	4.6	27	1.7	.0	82	43	21	14.0	.00	--	186	99	
1120	5050	23 C	8.1	322	1.60	.38	1.17	.04	.00	1.34	.90	.59	.23		--	184	32	1.2
					50	12	37	1		44	29	19	6					
08/12/71	5121	74 F			36	2.9	28	--	.0	88	--	25	17.0	--	--		102	
1100	5050	23 C	8.0	333	1.80	.24	1.22		.00	1.44		.71	.27		--		30	1.2
					54	7	37			43		21	8					
	27S/26E-34C01 M																	
03/19/71	5121	74.0F			118	83	46	2.4	.0	93	198	114	35.0	.00	--	659	370	
0910	5050	23.3C	8.0	948	5.89	6.83	2.00	.06	.00	1.52	4.12	3.21	.56		--	642	560	0.8
					40	46	14			16	44	34	6					
08/12/71	5121	78 F			50	4.4	44	--	.0	73	--	71	12.0	--	--		143	
1040	5050	26 C	8.0	523	2.50	.36	1.91		.00	1.20		2.00	.19		--		83	1.6
					48	7	37			23		38	4					
	28S/22E-33N01 M																	
04/07/71	5050				194	66	420	--	.0	90	--	443	.8	--	--		757	
	5050		7.9	3360	9.68	5.44	18.27		.00	1.48		12.49	.01		--		683	6.6
					29	16	54			4		37						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE									MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR
28S/23E-11E01 M																		
04/26/71	5121				62	2.7	119	--	--	119	--	80	44.0	.00	--		166	
1120	5050		7.6	932	3.09	.22	5.18			1.95		2.26	.71		--			4.0
					33	2	56			21		24	8					
28S/23E-34R01 M																		
04/26/71	5121				52	3.4	162	--	.0	54	--	224	6.8	.50	--		144	
1230	5050		7.8	1140	2.59	.28	7.05		.00	.89		6.32	.11		--		99	5.9
					23	2	62			8		55	1					
28S/24E-28A01 M																		
04/26/71	5121				129	1.7	140	--	.0	20	--	319	11.0	.00	--		329	
1310	5050		7.6	1430	6.44	.14	6.09		.00	.33		9.00	.18		--		313	3.4
					45	1	43			2		63	1					
28S/24E-34D01 M																		
04/26/71	5121				3.3	.4	28	--	2.0	55	--	13	1.8	.00	--		10	
1300	5050		8.4	174	.16	.03	1.22		.07	.90		.37	.03		--		39	3.9
					9	2	70		4	52		21	2					
28S/26E-03A01 M																		
04/02/71	5121	77.0F			88	7.4	59	1.8	.0	64	108	136	34.0	.00	--	544	250	
0900	5050	25.0C	7.9	824	4.39	.61	2.57	.05	.00	1.05	2.25	3.84	.55		--	466	198	1.6
					58	8	34	1		14	29	50	7					
08/12/71	5121	82 F			42	2.7	50	--	.0	79	--	78	13.0	--	--		116	
1020	5050	28 C	7.7	487	2.10	.22	2.18		.00	1.29		2.20	.21		--		52	2.0
					43	5	45			26		45	4					
28S/26E-04C01 M																		
03/09/71	5121	74 F			300	39	94	4.9	.0	120	478	222	220	.00	--	1560	911	
1145	5050	23 C	8.1	2020	14.97	3.21	4.09	.13	.00	1.97	9.95	6.26	3.55		--	1417	811	1.4
					67	14	18	1		9	46	29	16					
08/12/71	5121	76 F			280	39	80	--	.0	122	--	220	197	--	--		860	
1030	5050	24 C	8.0	1830	13.97	3.21	3.48		.00	2.00		6.20	3.18		--		760	1.2
					76	18	19			11		34	17					
28S/27E-07C01 M																		
03/09/71	5121	86 F			.6	.6	51	.3	.0	97	4.3	24	.0	.10	--	146	4	
1240	5050	30 C	8.3	250	.03	.05	2.22	.01	.00	1.59	.09	.68	.00		--	129	76	11.1
					1	2	96			67	4	29						
28S/27E-07C02 M																		
08/12/71	5121	84 F			2.2	.8	50	--	6.0	74	--	32	.0	--	--		9	
1000	5050	29 C	9.0	246	.11	.07	2.18		.20	1.21		.90	.00		--		62	7.3
					4	3	89		8	49		37						
28S/27E-29D01 M																		
03/09/71	5121	81 F			167	8.0	342	2.5	.0	31	510	408	65.0	.00	--	1670	450	
0100	5050	27 C	7.5	2340	8.33	.66	14.88	.06	.00	.51	10.62	11.51	1.05		--	1518	424	7.0
					35	3	62			2	45	49	4					
08/12/71	5121	82 F			79	3.9	230	--	.0	32	--	290	26.0	--	--		213	
0940	5050	26 C	7.9	1570	3.94	.32	10.01		.00	.52		8.18	.42		--		187	6.9
					25	2	64			3		52	3					
28S/27E-30J01 M																		
03/19/71	5121	90.0F			50	35	186	1.4	.0	62	214	266	40.0	.20	--	862	269	
0845	5050	32.2C	7.7	1440	2.50	2.88	8.09	.04	.00	1.02	4.46	7.50	.65		--	823	218	4.9
					19	21	60			7	33	55	5					
29S/23E-02G01 M																		
04/26/71	5121				31	2.1	156	--	.0	40	--	285	1.8	.20	--		86	
1240	5050		7.7	1090	1.55	.17	6.79		.00	.66		8.04	.03		--		53	7.3
					14	2	62			6		74						
29S/23E-16N01 M																		
04/07/71	5050			5500	298	13	780	--	.0	33	--	1420	.0	--	--		800	
	5050		7.7	5290	14.87	1.12	33.93		.00	.54		40.04	.00		--		773	12.0
					28	2	64			1		76						
29S/23E-35K01 M																		
04/07/71	5050				143	4.1	405	--	.0	9	--	824	.0	--	--		374	
	5050		7.5	2720	7.14	.34	17.62		.00	.15		23.24	.00		--		367	9.1
					26	1	65			1		85						
29S/24E-35D01 M																		
08/10/71	5121	70 F			23	1.1	54	.2	.0	41	57	59	3.8	.10	--	244	62	
1400	5050	21 C	7.9	410	1.15	.09	2.35	.01	.00	.67	1.19	1.66	.06		--	218	29	3.0
					32	3	65			19	33	46	2					
29S/25E-19M01 M																		
08/10/71	5121	70 F			18	1.2	36	--	.0	75	--	19	6.5	--	--		50	
1450	5050	21 C	8.3	270	.90	.10	1.57		.00	1.23		.54	.10		--		12	2.2
					33	4	58			46		20	4					
29S/25E-28A01 M																		
08/10/71	5121	71 F			50	7.3	32	--	.0	162	--	18	14.0	--	--		155	
1510	5050	22 C	8.2	400	2.50	.60	1.39		.00	2.66		.51	.23		--		22	1.1
					63	15	35			67		13	6					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR
					MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER				
	295/25F-29F 1 M																	
08/10/71	5121	72 F			11	.8	28	--	.0	72	--	12	2.4	--	--		31	
1500	5050	22 C	8.2	190	.55	.07	1.22		.00	1.18		.34	.04		--		28	2.2
					29	4	64			62		18	2					
	295/25F-30P01 M																	
08/10/71	5121	70 F			18	.2	37	--	.0	66	--	25	7.0	--	--		46	
1430	5050	21 C	8.1	283	.90	.02	1.61		.00	1.08		.71	.11		--		8	2.4
					32	1	57			38		25	4					
	295/25E-33L01 M																	
08/10/71	5121	70 F			45	1.9	34	--	.0	144	--	20	17.0	--	--		120	
1400	5050	21 C	7.9	394	2.25	.16	1.48		.00	2.36		.56	.27		--		3	1.4
					57	4	38			60		14	7					
	295/26E-10F01 M																	
04/29/71	5121				130	10	89	--	.0	139	--	67	38.0	.20	--		366	
1100	5050		7.8	1080	6.49	.83	3.87		.00	2.28		1.89	.61		--		252	2.0
					60	8	36			21		17	6					
	295/26F-11J01 M																	
04/29/71	5121				38	3.9	71	--	.0	154	--	23	21.0	.20	--		111	
0845	5050		8.0	536	1.90	.32	3.09		.00	2.52		.65	.34		--		15	2.9
					35	6	58			47		12	6					
	295/26E-12C01 M																	
04/29/71	5121				31	.9	74	--	.0	46	--	40	14.0	.00	--		81	
0910	5050		8.1	536	1.55	.07	3.22		.00	.75		1.13	.23		--		44	3.6
					29	1	60			14		21	4					
	295/26E-14A01 M																	
04/29/71	5121				35	4.0	56	--	.0	82	--	33	10.0	.10	--		104	
0840	5050		8.3	475	1.75	.33	2.44		.00	1.34		.93	.16		--		37	2.4
					37	7	51			28		20	3					
	295/26E-22F01 M																	
08/10/71	5121	68 F			99	10	40	--	.0	160	--	61	46.0	--	--		289	
1540	5050	20 C	8.1	747	4.94	.82	1.74		.00	2.62		1.72	.74		--		157	1.0
					66	11	23			35		23	10					
	295/26E-28N02 M																	
08/10/71	5121	79 F			66	9.1	26	--	.0	142	--	62	19.0	--	--		202	
1320	5050	26 C	8.0	508	3.29	.75	1.13		.00	2.33		1.75	.31		--		86	0.8
					65	15	22			46		34	6					
	295/26E-34R01 M																	
08/10/71	5121	67 F			43	5.1	42	1.3	.0	115	23	60	19.0	.40	--	289	128	
1300	5050	19 C	8.0	460	2.15	.42	1.83	.03	.00	1.88	.48	1.69	.31		--	250	35	1.6
					49	9	41	1		43	11	39	7					
	295/28E-32R01 M																	
09/30/71	5121	76.0F			37	4.2	24	--	.0	126	--	20	3.8	.20	--		109	
1330	5050	24.4C	7.8	332	1.85	.35	1.04		.00	2.07		.56	.06		--		7	1.0
					56	11	31			62		17	2					
	305/24E-23001 M																	
04/07/71	5050			1800	103	15	245	--	.0	231	--	139	.0	--	--		321	
	5050		8.0	1670	5.14	1.27	10.66		.00	3.79		3.92	.00		--		131	6.0
					31	8	64			23		23						
	305/25E-30A01 M																	
04/08/71	5050			8000	923	64	608	--	.0	46	--	2710	.4	--	--		2570	
	5050		7.5	7860	46.06	5.30	26.45		.00	.75		76.42	.01		--		2533	5.2
					59	7	34			1		97						
	305/26E-07L02 M																	
04/28/71	5121				28	2.5	20	--	.0	112	--	10	1.8	.10	--		80	
1400	5050		8.1	247	1.40	.21	.87		.00	1.84		.28	.03		--		12	1.0
					57	9	35			74		11	1					
	305/26E-12H01 M																	
04/21/71	5121				58	9.3	35	--	.0	183	--	23	42.0	.20	--		183	
1040	5050		7.9	512	2.89	.76	1.52		.00	3.00		.65	.68		--		33	1.1
					56	15	30			59		13	13					
	305/26E-35K01 M																	
04/28/71	5121				28	2.0	39	--	.0	140	--	11	3.9	.10	--		78	
0840	5050		8.2	317	1.40	.16	1.70		.00	2.29		.31	.06		--		37	1.9
					44	5	54			72		10	2					
	305/27E-05001 M																	
04/21/71	5121				21	4.5	16	--	.0	91	--	6.7	3.1	.10	--		71	
1030	5050		8.0	209	1.05	.37	.70		.00	1.49		.19	.05		--		4	0.8
					50	18	33			71		9	2					
	305/27E-29P01 M																	
04/28/71	5121				45	3.8	24	--	.0	141	--	15	10.0	.10	--		128	
0830	5050		7.8	357	2.25	.31	1.04		.00	2.31		.42	.16		--		13	0.9
					63	9	29			65		12	4					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN CA	MG	NA	K	CO3	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER B	F SIO2	TDS SUM	TH NCH	SAR
30S/28E-01E01 M																		
09/30/71	5121	75.0F			80	18	81	--	.0	198	--	115	12.0	.20	--		274	
1050	5050	23.9C	7.6	920	3.99	1.48	3.52		.00	3.25		3.24	.19		--		111	2.1
					43	16	38			35		35	2					
30S/28E-03G01 M																		
04/27/71	5121				181	50	180	--	.0	322	--	314	69.0	.40	--		660	
1350	5050		7.7	2050	9.03	4.16	7.83		.00	5.28		8.85	1.11		--		396	3.0
					44	20	38			26		43	5					
30S/28E-05E01 M																		
09/30/71	5121	66.0F			47	7.0	25	--	.0	149	--	26	5.6	.20	--		145	
1330	5050	18.9C	7.7	406	2.35	.58	1.09		.00	2.44		.73	.09		--		25	0.9
					58	14	27			60		18	2					
30S/28E-07G01 M																		
09/30/71	5121	75.0F			38	5.9	23	--	.0	133	--	17	8.6	.10	--		120	
1100	5050	23.9C	7.6	342	1.90	.49	1.00		.00	2.18		.48	.14		--		11	0.9
					56	14	29			64		14	4					
30S/28E-09D01 M																		
09/30/71	5121	64.0F			59	29	109	--	.0	378	--	72	68.0	.60	--		264	
0945	5050	17.8C	7.5	1070	2.94	2.38	4.74		.00	6.20		2.03	1.10		--		44	2.9
					27	22	44			58		19	10					
30S/28E-10D01 M																		
09/30/71	5121	67.0F			70	6.8	58	--	.0	183	--	69	8.8	.10	--		202	
1005	5050	19.4C	7.7	684	3.49	.56	2.52		.00	3.00		1.95	.14		--		53	1.8
					51	8	37			44		29	2					
30S/28E-17H01 M																		
09/30/71	5121	66.0F			72	17	63	--	.0	216	--	79	49.0	.20	--		250	
0910	5050	18.9C	7.8	762	3.59	1.40	2.74		.00	3.54		2.23	.79		--		73	1.7
					47	18	36			46		29	10					
30S/28E-21M02 M																		
09/30/71	5121	64.0F			91	45	136	--	.0	451	--	100	.4	.70	--		412	
0855	5050	17.8C	7.7	1300	4.54	3.70	5.92		.00	7.39		2.82	.01		--		43	2.9
					35	28	46			57		22						
30S/28E-25A02 M																		
09/30/71	5121	76.0F			58	11	54	--	.0	236	--	53	1.8	.20	--		191	
0910	5050	24.4C	7.8	611	2.89	.90	2.35		.00	3.87		1.49	.03		--		4	1.7
					47	15	38			63		24						
30S/28E-26A01 M																		
04/27/71	5121				45	10	52	--	.0	223	--	27	1.4	.20	--		156	
0920	5050		8.0	516	2.25	.87	2.26		.00	3.65		.76	.02		--		27	1.8
					44	17	44			71		15						
30S/28E-28D01 M																		
04/27/71	5121				104	28	128	--	.0	432	--	87	5.5	.60	--		378	
0955	5050		7.7	1210	5.19	2.36	5.57		.00	7.08		2.45	.09		--		24	2.9
					43	20	46			59		20	1					
09/30/71	5121	64.0F			102	29	126	--	.0	436	--	90	4.2	.70	--		374	
0845	5050	17.8C	7.6	1210	5.09	2.38	5.48		.00	7.15		2.54	.07		--		16	2.8
					42	20	45			59		21	1					
30S/29E-04E02 M																		
12/08/70	5050	62 F	7.3	840	79	16	84	--	.0	316	--	50	12.0	.30	.3		263	
	5050	17 C	7.6	878	3.94	1.32	3.65		.00	5.18		1.41	.19		--		4	2.3
					45	15	42			59		16	2					
30S/29E-04E03 M																		
12/08/70	5050	60 F	7.3	3000	8.0	2.4	704	--	.0	230	--	288	163	.20	.3		30	
	5050	16 C	8.1	3240	.40	.20	30.62		.00	3.77		8.12	2.63		--		159	56.1
					1	1	95			12		25	8					
30S/29E-04F02 M																		
12/09/70	5050	68 F	7.6	750	41	7.2	109	--	.0	330	--	61	.2	.30	.2		132	
	5050	20 C	8.0	723	2.05	.59	4.74		.00	5.41		1.72	.00		--		139	4.1
					28	8	66			75		24						
30S/29E-04L01 M																		
12/08/70	5050	76 F	7.3	580	37	16	63	--	.0	282	--	24	1.4	.20	.3		162	
	5050	24 C	7.8	570	1.85	1.39	2.74		.00	4.62		.68	.02		--		69	2.2
					32	24	48			81		12						
30S/29E-05D01 M																		
12/08/70	5050	59 F	7.4		283	69	165	--	.0	194	--	261	242	.20	.4		991	
	5050	15 C	8.0	2360	14.12	5.66	7.18		.00	3.16		7.36	3.90		--		832	2.3
					60	24	30			13		31	17					
30S/29E-08C01 M																		
12/09/70	5050	56 F	7.4	1500	179	41	89	--	.0	160	--	255	141	.20	.3		618	
	5050	13 C	7.9	1610	8.93	3.42	3.87		.00	2.62		7.19	2.27		--		487	1.6
					55	21	24			16		45	14					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP		FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN CA	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE MG	NA	*	CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER B	F SIO2	TDS SUM	TH NCM	SAR
	30S/24E-09L02	M																	
12/09/70	5050	53	F	7.1	1200	125	31	69	--	.0	244	--	156	74.0	.40	.2		440	
	5050	12	C	8.0	1160	6.24	2.56	3.00		.00	4.00		4.40	1.19		--		240	1.4
						54	22	26			34		38	10					
	30S/30E-09P01	M																	
12/08/70	5050	67	F	7.3	950	89	27	68	--	.0	311	--	42	20.0	.30	.4		334	
	5050	19	C	8.2	889	4.44	2.24	2.96		.00	5.10		1.18	.32		--		79	1.6
						50	25	33			57		13	4					
	31S/24E-13J03	M																	
04/09/71	5050				9000	627	57	1500	--	.0	136	--	1150	.1	--	--		1800	
	5050			7.9	8540	31.29	4.69	65.25		.00	2.23		32.43	.00		--		1689	15.4
						37	5	76			3		38						
	31S/24E-13J04	M																	
04/09/71	5050				4000	656	19	342	--	.0	99	--	295	.0	--	--		1720	
	5050			7.9	3840	32.73	1.64	14.88		.00	1.62		8.32	.00		--		1639	3.6
						85	4	39			4		22						
	31S/24E-13J05	M																	
04/09/71	5050					21	4.0	200	--	.0	172	--	51	.0	--	--		69	
	5050			7.4	1090	1.05	.33	8.70		.00	2.82		1.44	.00		--		72	10.5
						10	3	80			26		13						
	31S/24E-13P04	M																	
04/08/71	5050				13000	543	171	2450	--	.0	137	--	2190	83.0	--	--		2060	
	5050			7.8	12800	27.10	14.07	106.58		.00	2.25		61.76	1.34		--		1948	23.5
						21	11	83			2		48	1					
	31S/24E-24N03	M																	
04/08/71	5050				40000	847	1444	8740	--	.0	980	--	13800	.2	--	--		8060	
	5050			7.2	40500	42.27	118.81	380.19		.00	16.06		389.16	.00		--		7257	42.4
						10	29	94			4		96						
	31S/24E-24P02	M																	
04/08/71	5050				12000	493	391	1970	--	.0	853	--	1520	.2	--	--		2840	
	5050			7.5	11200	24.60	32.16	85.70		.00	13.98		42.86	.00		--		2141	16.1
						22	29	77			12		38						
	31S/24E-25E03	M																	
04/08/71	5050				22000	455	409	4750	--	.0	240	--	2270	69.0	--	--		2820	
	5050			8.0	19800	22.70	33.65	206.63		.00	3.93		64.01	1.11		--		2623	38.9
						11	17	104			2		32	1					
	31S/24E-25E04	M																	
04/08/71	5050				30000	1400	1087	5940	--	.0	779	--	11000	1.8	--	--		7970	
	5050			6.9	31900	69.86	89.42	258.39		.00	12.77		310.20	.03		--		7331	29.0
						22	28	81			4		97						
	31S/24E-26L03	M																	
04/09/71	5050				6000	561	116	828	--	.0	111	--	767	.0	--	--		1880	
	5050			7.9	5960	27.99	9.57	36.02		.00	1.82		21.63	.00		--		1788	8.3
						47	16	60			3		36						
	31S/24E-36D06	M																	
04/08/71	5050					837	797	3890	--	.0	722	--	5900	12.0	--	--		5370	
	5050			7.1	20200	41.77	65.55	169.22		.00	11.83		166.38	.19		--		4778	23.1
						21	32	84			6		82						
	31S/24E-36D07	M																	
04/08/71	5050				16000	704	591	2900	--	.0	1310	--	3240	24.0	--	--		4190	
	5050			7.3	15500	35.13	48.60	126.15		.00	21.47		91.37	.39		--		3115	19.5
						23	31	81			14		59						
	31S/24E-36D08	M																	
04/08/71	5050				29000	1170	1015	6410	--	.0	1510	--	9790	.6	--	--		7100	
	5050			7.1	29400	58.38	83.51	278.84		.00	24.75		276.08	.01		--		5862	33.1
						20	28	95			8		94						
	31S/24E-36M04	M																	
04/08/71	5050				11000	970	254	1710	--	.0	174	--	2850	30.0	--	--		3470	
	5050			7.5	11400	48.40	20.94	74.39		.00	2.85		80.37	.48		--		3327	12.6
						42	18	65			2		70						
	31S/25E-13R01	M																	
04/28/71	5121					1.4	1.3	67	--	10	78	--	16	.1	.30	--		9	
1305	5050			9.0	329	.07	.11	2.91		.33	1.28		.45	.00		--		72	9.8
						2	3	88		10	39		14						
	31S/27E-03J01	M																	
04/27/71	5121					58	10	30	--	.0	202	--	24	12.0	.20	--		189	
1450	5050			7.6	499	2.89	.88	1.31		.00	3.31		.68	.19		--		23	1.0
						58	18	26			66		14	4					
	31S/27E-04J02	M																	
04/27/71	5121					72	10	34	--	.0	223	--	24	6.4	.20	--		221	
1430	5050			7.3	568	3.59	.82	1.48		.00	3.65		.68	.10		--		38	1.0
						63	14	26			64		12	2					

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE								MILLIGRAMS PER LITER				
					CA	MG	NA	K	CO3	HCO3	SO4	CL	NO3	B	F SIO2	TDS SUM	TH NCH	SAR
	31S/27E-05A01 M																	
04/27/71	5121				57	6.7	28	--	.0	195	--	16	4.2	.20	--		170	
1410	5050		7.5	455	2.84	.55	1.22		.00	3.20		.45	.07		--		10	0.9
					62	12	27			70		10	2					
	31S/27E-06B02 M																	
04/27/71	5121				29	1.4	27	--	.0	124	--	9.6	3.8	.10	--		78	
1400	5050		8.0	279	1.45	.12	1.17		.00	2.03		.27	.06		--		23	1.3
					52	4	42			73		10	2					
	31S/27E-10D01 M																	
04/27/71	5121				76	10	40	--	.0	251	--	26	5.6	.20	--		234	
1435	5050		7.6	620	3.79	.88	1.74		.00	4.11		.73	.09		--		28	1.1
					61	14	28			66		12	1					
	31S/27E-15L01 M																	
04/27/71	5121				76	8.6	40	--	.0	238	--	31	4.7	.20	--		225	
1330	5050		7.6	601	3.79	.71	1.74		.00	3.90		.87	.08		--		30	1.2
					63	12	29			65		14	1					
	31S/27E-31C01 M																	
04/28/71	5121				13	1.3	53	--	.0	114	--	14	.1	.10	--		38	
1210	5050		7.9	314	.65	.11	2.31		.00	1.87		.39	.00		--		56	3.8
					21	4	74			60		12						
	31S/27E-31J01 M																	
04/28/71	5121				52	11	109	--	.0	178	--	38	.4	.20	--		176	
1200	5050		7.7	826	2.59	.92	4.74		.00	2.92		1.07	.01		--		30	3.6
					31	11	57			35		13						
	31S/28E-10A01 M																	
04/27/71	5121				55	10	52	--	.0	214	--	32	3.3	.20	--		182	
1045	5050		7.8	576	2.74	.90	2.26		.00	3.51		.90	.05		--		7	1.7
					48	16	39			61		16	1					
	31S/28E-14C01 M																	
04/27/71	5121				85	9.9	90	--	.0	183	--	91	7.3	.40	--		253	
1030	5050		7.8	913	4.24	.81	3.92		.00	3.00		2.57	.12		--		103	2.5
					46	9	43			33		28	1					
	31S/28E-30M01 M																	
04/27/71	5121				33	2.6	50	--	.0	170	--	19	.4	.10	--		93	
1225	5050		8.0	411	1.65	.21	2.18		.00	2.79		.54	.01		--		47	2.3
					40	5	53			68		13						
	31S/28E-31001 M																	
04/27/71	5121				16	7.1	48	--	.0	125	--	25	.0	.10	--		69	
1230	5050		7.9	366	.80	.58	2.09		.00	2.05		.71	.00		--		34	2.5
					22	16	57			56		19						
	31S/28E-31N01 M																	
04/27/71	5121				25	4.0	45	--	.0	124	--	20	.1	.20	--		79	
1235	5050		7.9	374	1.25	.33	1.96		.00	2.03		.56	.00		--		23	2.2
					33	9	52			54		15						
	31S/28E-36A01 M																	
04/27/71	5121				10	3.2	41	--	.0	102	--	14	1.2	.10	--		38	
1100	5050		8.2	277	.50	.26	1.78		.00	1.67		.39	.02		--		46	2.9
					18	9	64			60		14	1					
	31S/29E-23E01 M																	
05/24/71	5119				1.2	.2	66	.6	31	31	12	41	1.7	--	1.6	172	4	
	5803		9.7	286	.06	.02	2.88	.02	1.04	.51	.26	1.16	.03		--	170	74	14.7
					2	1	97	1	35	17	9	39	1					
	32S/26E-02L01 M																	
04/28/71	5121				43	2.8	78	--	.0	122	--	20	1.1	.50	--		119	
1105	5050		8.0	610	2.15	.23	3.39		.00	2.00		.56	.02		--		19	3.1
					35	4	56			33		9						
	32S/26E-03L01 M																	
04/28/71	5121				105	4.8	86	--	.0	105	--	25	2.2	.50	--		282	
1045	5050		7.8	918	5.24	.39	3.74		.00	1.72		.71	.04		--		196	2.2
					57	4	41			19		8						
	32S/26E-04G01 M																	
04/28/71	5121				51	2.3	87	--	.0	102	--	6.7	1.4	.60	--		137	
1030	5050		7.9	682	2.54	.19	3.78		.00	1.67		.19	.02		--		53	3.2
					37	3	55			24		3						
	32S/26E-10M01 M																	
04/28/71	5121				119	2.6	137	--	.0	76	--	8.7	.1	.80	--		308	
1120	5050		7.7	1200	5.94	.21	5.96		.00	1.25		.25	.00		--		245	3.4
					49	2	50			10		2						
	32S/26E-20G01 M																	
06/03/71	5121				331	21	173	6.0	.0	79	1160	29	3.1	.50	--	1860	911	
1000	5050		7.7	2150	16.52	1.73	7.53	.15	.00	1.29	24.15	.82	.05		--	1762	849	2.5
					64	7	29	1		5	92	3						

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY PH	EC	MINERAL CONSTITUENTS IN CA	MG	NA	K	MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE CO3	HCO3	SO4	CL	NO3	MILLIGRAMS PER LITER B	F SIO2	TDS SUM	TH NCH	SAR
32S/27E-02J01 M																		
04/27/71 1350	5121 5050		8.1	454	36 1.80 40	3.9 .32 7	52 2.26 50	--	.0 .00	156 2.56 56	--	20 .56 12	.9 .01	.20	-- --		106 22	2.2
32S/27E-03P01 M																		
04/28/71 1150	5121 5050		8.2	427	29 1.45 34	7.7 .63 15	51 2.22 52	--	.0 .00	153 2.51 59	--	17 .48 11	1.1 .02	.20	-- --		104 22	2.2
32S/27E-14A01 M																		
04/27/71 1300	5121 5050		7.7	513	49 2.45 48	2.8 .23 4	60 2.61 51	--	.0 .00	234 3.84 75	--	19 .54 11	3.8 .06 1	.40	-- --		134 58	2.3

TABLE E-2

TRACE MINERAL ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analysis of ground water by various agencies and laboratories. The code numbers listed below will identify the laboratory that conducted the analysis:

5000	U. S. Geological Survey
5050	Department of Water Resources
5060	Department of Public Health
5802	Twining Laboratory
5803	Hornkohl Laboratory

Chemical Symbols

AL	Aluminum	GA	Gallium
AS	Arsenic	GE	Germanium
BE	Beryllium	PB	Lead
BI	Bismuth	MN	Manganese
CD	Cadmium	HG	Mercury
CR	Chromium	MO	Molybdenum
CO	Cobalt	NI	Nickel
CU	Copper	TI	Titanium
FED	Iron, Dissolved	V	Vanadium
FET	Iron, Total	ZN	Zinc

Abbreviations

M	Milligrams per liter	Y	Less than the amount indicated
U	Micrograms per liter	*	By Atomic Absorption

TABLE E-2

TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL GE	AS PB	BE MN	BI HG	CD MO	CR NI	CO TI	CU V	FED FET	GA ZN
01S/10E-19L01 M	4-02-71	5050		0.00M --								
02S/10E-11N01 M	4-02-71	5050		0.00M --								
02S/12E-32P01 M	4-02-71	5050		0.00M --								
03S/08E-29K01 M	4-01-71	5050		0.00M --								
03S/09E-23E01 M	4-01-71	5050		0.00M --								
03S/10E-12L01 M	4-06-71	5050		0.00M --								
04S/08E-26R01 M	4-07-71	5050		0.00M --								
04S/09E-21A01 M	4-06-71	5050		0.00M --								
04S/12E-29J01 M	4-02-71	5050		0.00M --								
05S/09E-18D01 M	4-01-71	5050		0.02M --								
05S/11E-06Q01 M	4-07-71	5050		0.00M --								
05S/11E-22B01 M	4-07-71	5050		0.00M --								
05S/12E-32Q01 M	4-02-71	5050		0.00M --								
06S/10E-07D01 M	4-01-71	5050		0.00M --								
06S/10E-24L01 M	4-01-71	5050		0.00M --								
06S/12E-21N01 M	4-02-71	5050		0.00M --								
07S/11E-21P01 M	4-06-71	5050		0.00M --								
07S/15E-29Q01 M	4-07-71	5050		0.00M --								
07S/16E-29Q01 M	4-01-71	5050		0.02M --								
08S/12E-12D02 M	4-08-71	5050		0.00M --								
08S/13E-19J01 M	4-07-71	5050		0.00M --								
08S/16E-28P01 M	4-01-71	5050		0.00M --								
09S/13E-17F01 M	4-08-71	5050		0.01M --								
09S/14E-12R01 M	4-02-71	5050		0.01M --								
09S/15E-02R01 M	4-01-71	5050		0.00M --								
09S/15E-25J03 M	9-08-71	5802			-- NIL						0.006M --	
09S/16E-30B02 M	9-08-71	5802			-- NIL						0.016M --	
09S/16E-30B03 M	9-08-71	5802			-- NIL						0.008M --	
09S/16E-31F01 M	9-08-71	5802			-- NIL						0!006M --	
09S/24E-24C03 M	11-01-70	5000	9.1U 0.5U	-- 1.4UY	0.6UY 4.6U	0.3UY 0.5UY	1.4UY 8.0U	1.4UY 0.3UY	1.4UY 0.6UY	1.4UY 0.3UY	4.6U --	5.7UY 5.7UY
09S/24E-35H01 M	11-01-70	5000	6.0U 0.3UY	-- 1.9U	0.6UY 2.5U	1.7U 0.5UY	1.4UY 0.3UY	1.4UY 1.3U	2.3U 0.6UY	1.4UY 0.7U	4.0U --	5.7UY 1,450U*
10S/13E-10H01 M	3-31-71	5050		0.00M --								

TABLE E-2 (Continued)

TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL GE	AS PB	BE MN	BI HG	CD MO	CR NI	CO TI	CU V	FED FET	GA ZN
15S/22E-27K80 M	8-09-71	5050			-- 1.0M						-- 15.3M	
15S/22E-27L80 M	8-09-71	5050			-- 1.4M						-- 15.9M	
15S/22E-27L81 M	8-09-71	5050			-- 1.2M						-- 15.9M	
24S/24E-09Q02 M	8-20-71	5060		0.13M --								
	9-15-71	5060		0.14M --								
25S/22E-10Q01 M	2-12-71	5803		0.10M --	-- 0.00M						-- 0.1M	
25S/22E-27J01 M	3-10-71	5803		0.075M --	-- 0.00M						-- 0.1M	
26S/23E-33N01 M	3-05-71	5050		0.03M --								
26S/23E-33N02 M	3-05-71	5050		0.02M --								
29S/28E-32R01 M	9-30-71	5050		0.00M --								
30S/28E-01E01 M	9-30-71	5050		0.00M --								
30S/28E-05E01 M	9-30-71	5050		0.00M --								
30S/28E-07G01 M	9-30-71	5050		0.00M --								
30S/28E-09Q01 M	9-30-71	5050		0.00M --								
30S/28E-10Q01 M	9-30-71	5050		0.00M --								
30S/28E-17H01 M	9-30-71	5050		0.00M --								
30S/28E-21M02 M	9-30-71	5050		0.01M --								
30S/28E-25A02 M	9-30-71	5050		0.00M --								
30S/28E-28D01 M	9-30-71	5050		0.00M --								
30S/29E-04E02 M	12-08-70	5050		0.10M --								
	12-08-70	5000	1.4UY 0.3UY	-- 1.4UY	0.6UY 1.4UY	0.3UY --	1.4UY 8.0U	1.4UY 0.3UY	1.4UY 0.6UY	1.4UY 3.4U	5.1U --	5.7UY 5.7UY
30S/29E-04E03 M	12-08-70	5050		0.00M --								
30S/29E-04F02 M	12-09-70	5050		0.42M --								
30S/29E-04L01 M	12-08-70	5050		0.19M --								
30S/29E-05D01 M	12-08-70	5050		0.00M --								
30S/29E-08C01 M	12-09-70	5050		0.00M --								
	12-09-70	5000	5.7U 0.3UY	-- 1.4UY	0.6UY 1.4UY	0.3UY --	1.4UY 3.4U	1.4UY 0.3UY	1.4UY 0.6UY	1.4UY 2.3U	11U --	5.7UY 3.4U
30S/29E-09L02 M	12-09-70	5050		0.00M --								
30S/30E-09P01 M	12-08-70	5050		0.00M --								
	12-08-70	5000	1.4UY 0.3UY	-- 1.4UY	0.6UY 1.4UY	0.3UY --	1.4UY 13U	1.4UY 0.5U	1.4UY 0.6UY	1.4UY 5.4U	9.7U --	5.7UY 5.7UY
31S/29E-23E01 M	5-24-71	5803		0.01MY --	-- 0.00M						-- 0.1M	

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER

Table E-3 presents analyses which do not appear on Tables E-1 and E-2. Listed below are definitions of abbreviations used in this table.

LAB	Laboratory	
	5000	U. S. Geological Survey
	5050	Department of Water Resources
	5802	Twining Laboratory
	5803	Hornkohl Laboratory
ABS	Methylene Blue Active Substances (as Alkyl Benzene Sulfonate)	
NH_3	Ammonia	
NO_2	Nitrite	
CHLO	Pesticides, Chlorinated Hydrocarbons	
ORPH	Pesticides, Organic Phosphorus	
PO_4	Phosphates	
S	Sulfides	

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER
(In milligrams per liter)

STATE WELL NO.	DATE	LAB	ABS	NH_3	NO_2	CHLO*	ORPH*	PO_4	S
12S/19E-13A01 M	4-12-71	5050				None Detected	None Detected		
18S/28E-14E01S M	1-26-71	5802						0.7	
18S/28E-26L01 M	1-21-71	5802						0.1	
18S/28E-34F01 M	1-21-71	5802						0.5	
25S/22E-10Q01 M	2-12-71	5803		Trace	0.0				0.0
25S/22E-27J01 M	3-10-71	5803		Trace	0.0				0.0
27S/26E-22Q01 M	6-18-71	5803							0.0
27S/26E-27A01 M	6-02-71	5803							0.0
27S/26E-27R01 M	5-11-71	5803							0.0
29S/28E-32R01 M	9-30-71	5050	0.0						
30S/28E-01E01 M	9-30-71	5050	0.0						
30S/28E-05E01 M	9-30-71	5050	0.0						
30S/28E-07G01 M	9-30-71	5050	0.0						
30S/28E-09Q01 M	9-30-71	5050	0.0						
30S/28E-10Q01 M	9-30-71	5050	0.0						
30S/28E-17H01 M	9-30-71	5050	0.0						
30S/28E-21M02 M	9-30-71	5050	0.0						
30S/28E-25A02 M	9-30-71	5050	0.0						
30S/28E-28D01 M	9-30-71	5050	0.0						
31S/29E-23E01 M	5-24-71	5803		Trace					0.0

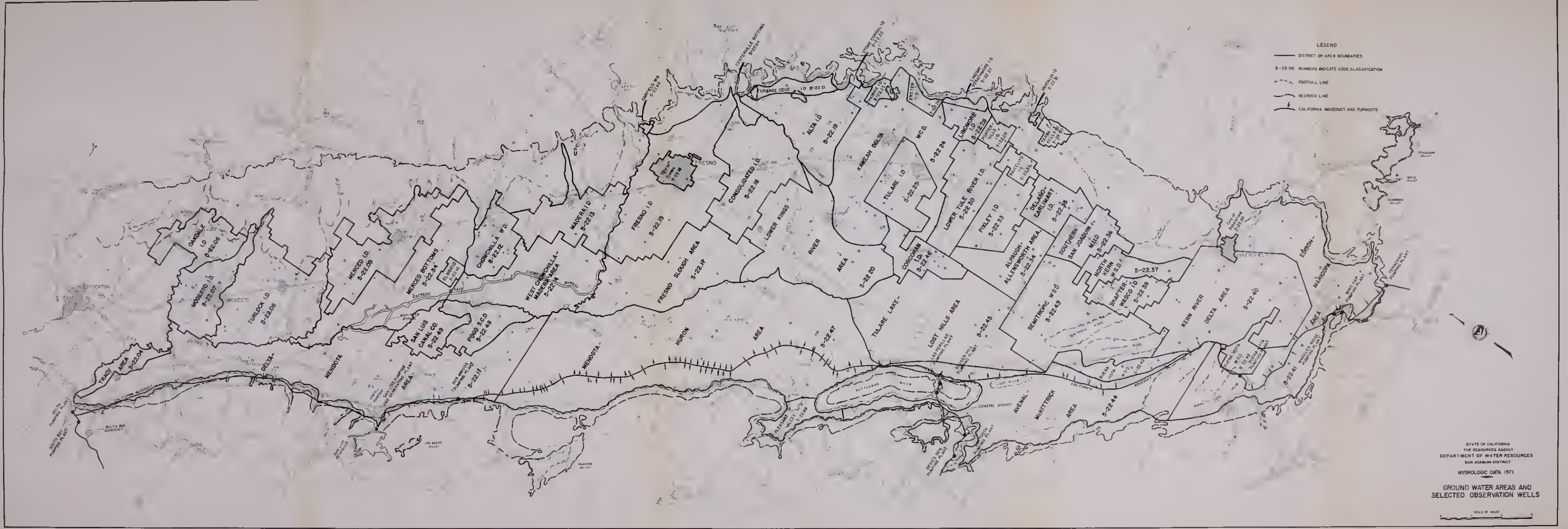
---

*When detected, pesticides are reported in parts per billion.

83758—950 9/18/72 750

VANDALIA 5-2
PORTER
TERRA BELL
I.D. 5-22.29
SAUCELITO I.D. 5-22.32
DELANO-EARLIMART I.D.
2.33
TULARE LAKE
ALPAUGH-ALLENSWORTH AREA 5-22.34
SEMITROPIC W.S. 5-22
LOST HILLS
BRANCH
AVENAL-McKITTRICK

PLATE 1



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1971

GROUND WATER AREAS AND
SELECTED OBSERVATION WELLS

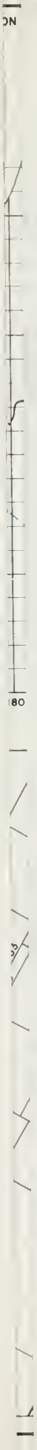
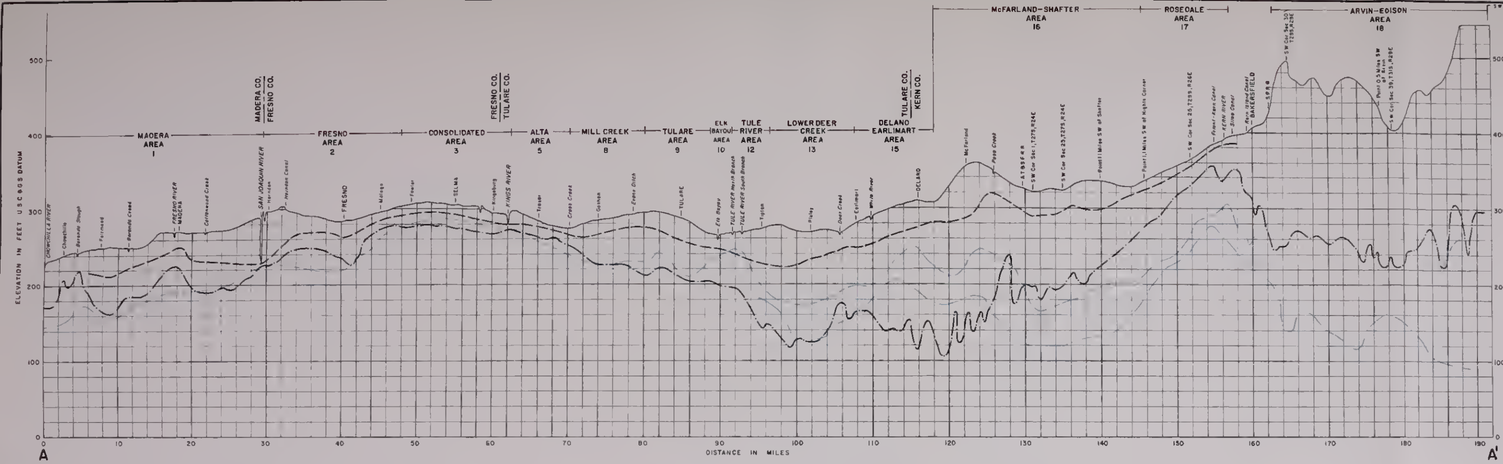
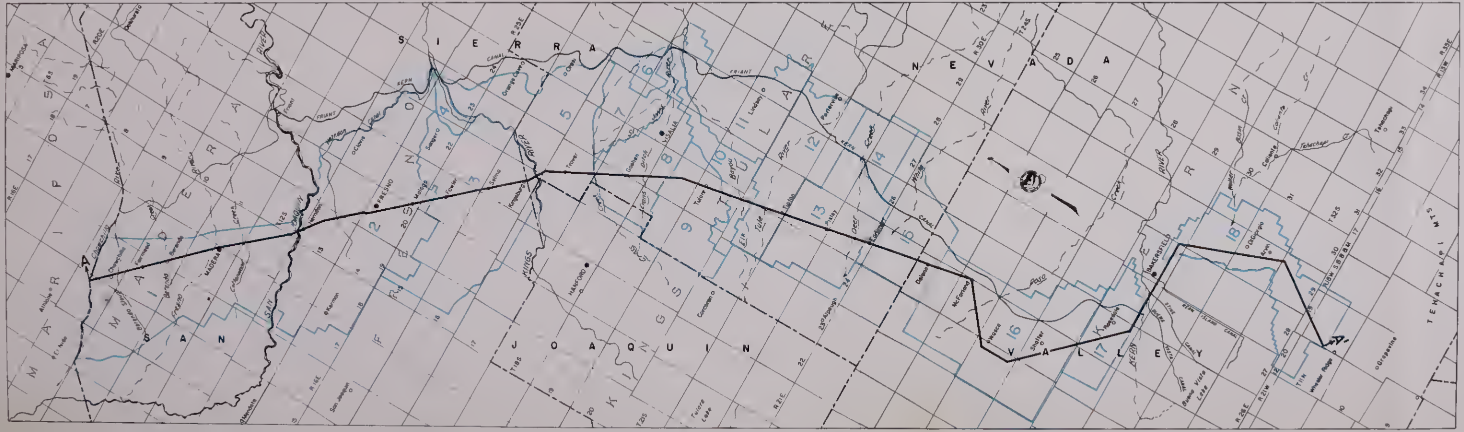

ON
180

PLATE 2





HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS

1 MADERA
2 FRESNO
3 CONSOLIDATED
4 CENTERVILLE BOTTOMS
5 ALTA
6 IVANHOE
7 OUTSIDE IVANHOE
8 MILL CREEK
9 TULARE
10 ELK BAYOU
11 LINDSAY-EXETER
12 TULE RIVER
13 LOWER DEER CREEK
14 MIDDLE DEER CREEK
15 DELANO-EARLIMART
16 Mc FARLAND-SHAFTER
17 ROSEDALE
18 ARVIN-EDISON

LEGEND

━━━━	GROUND WATER AREA BOUNDARIES
— — —	GROUND WATER LEVEL FALL 1921
—·—·—	GROUND WATER LEVEL FALL 1951
— - —	GROUND WATER LEVEL SPRING 1971 , UNCONFINED AQUIFER
—··—	GROUND WATER LEVEL SPRING 1971 , PRESSURE SURFACE
┗━━┛	GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1971

MAP OF SELECTED GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY AND PROFILES ALONG SECTION A-A' SHOWING GROUND WATER LEVELS IN 1921, 1951 & 1971

SCALE OF MILES
6 0 6 12

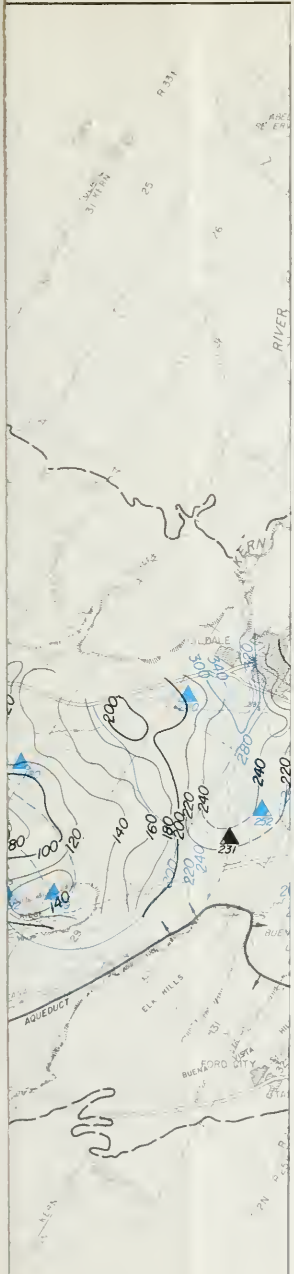
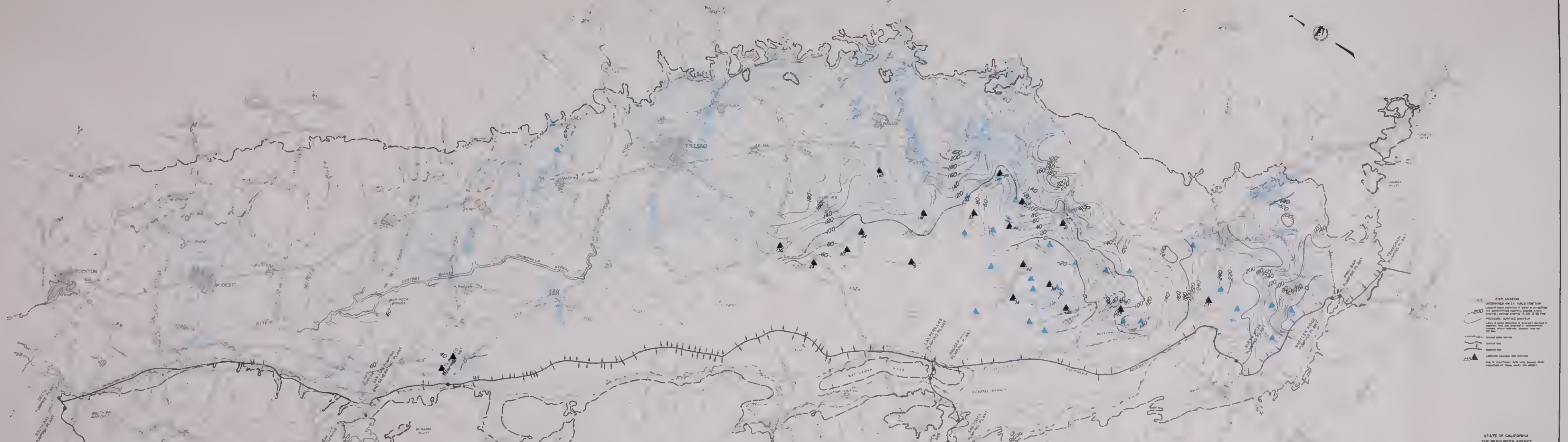

R 33 E
31 KERN
25
26
RIVER
KERN
DALE
300
340
320
280
200
240
220
180
160
140
120
100
80
252
231
AQUEDUCT
ELK HILLS
BUENA VISTA
FORD CITY
2N
KERN

PLATE 3

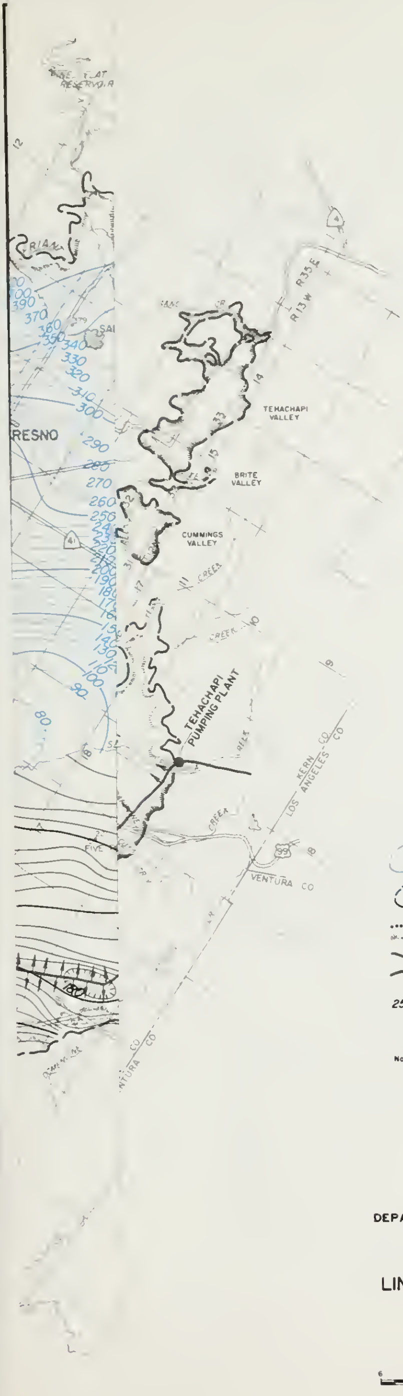


STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1971

LINES OF EQUAL ELEVATION OF WATER IN WELLS

SAN JOAQUIN VALLEY

SCALE OF MILES



EXPLANATION

-200 UNCONFINED WATER-TABLE CONTOUR
Lines of equal elevation of water in unconfined and semiconfined aquifers, dashed where inferred; contour interval 10, 20, & 50 Feet

-200 PRESSURE-SURFACE CONTOUR
Lines of equal elevation of pressure surface in aquifers that are confined or semiconfined, dashed where inferred, contour interval 20 feet.

Ground water barrier

Foothill line

Bedrock line

California aqueduct and turnouts

255▲ Due to insufficient data, only ground water elevations of these wells are shown

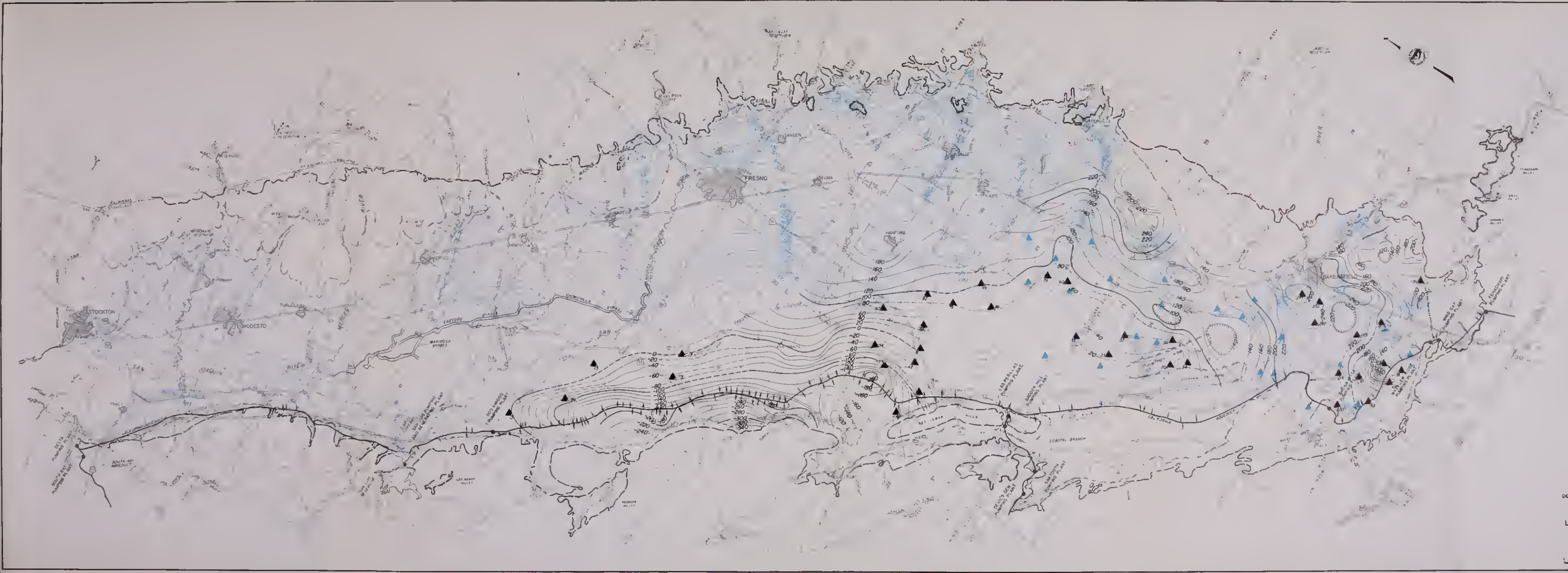
Note Water level measurements south of township 13 and west of the trough of the valley were made in December 1970.

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1971

LINES OF EQUAL ELEVATION OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1971

SCALE OF MILES
6 0 6 12

PLATE 4



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1971

LINES OF EQUAL ELEVATION OF WATER IN WELLS

SAN JOAQUIN VALLEY
SPRING 1971

SCALE OF MILES

[illegible]88764

THIS BOOK IS DUE ON THE LAST DATE STAMPED BELOW

BOOKS REQUESTED BY ANOTHER BORROWER ARE SUBJECT TO RECALL AFTER ONE WEEK. RENEWED BOOKS ARE SUBJECT TO IMMEDIATE RECALL

NOV 17 1978
NOV 11 REC'D

FEB 15 1979

[illegible]

JAN 6 1986

RECEIVED
AUG 20 1986

APR 20 1986

PHYS SCI LIBRARY

MAY - 1 1986 REC'D

MAY - 1 1986 REC'D

RECEIVED

MAY 2 1986

PHYS SCI LIBRARY

JUN 30 1987

RECEIVED

JUN 25 1987

PHYS SCI LIBRARY

LIBRARY, UNIVERSITY OF CALIFORNIA, DAVIS

Book Slip–Series 458

3 1175 00489 9947

TC California. Dept. of Water Resources.
824 Bulletin.
C2
A2
no. 130 : 71
v. 4-5
appx. A-F
PHYSICAL
SCIENCES
LIBRARY